

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet  
Issue Date: 19-Dec-2005

CHEMWATCH 4658-24  
CD 2005/4 Page 1 of 9

---

## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

### PRODUCT NAME

SPARKLING CLEAR

### STATEMENT OF HAZARDOUS NATURE

**CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR  
1910.1200.**

### SUPPLIER

Company: Aquarium Pharmaceuticals Incorporated  
Address:  
PO Box 218  
Chalfont  
PA, 18914-0218  
USA  
Telephone: +1 215 822 8181  
Emergency Tel: +1800 222 1222 (US Only)

Company: Aquarium Pharmaceuticals Incorporated  
Address:  
50 East Hamilton Street  
Chalfont  
PA, 18914  
USA  
Telephone: +1 215 822 8181

### PRODUCT USE

Used according to manufacturers directions. For product 67.

### SYNONYMS

"Solution ID# 3365"

---

## Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

---

NAME	CAS RN	%
aluminium sulfate	10043-01-3	7.13

---

## Section 3 - HAZARDS IDENTIFICATION

---

### CANADIAN WHMIS SYMBOLS



### EMERGENCY OVERVIEW

#### RISK

Cumulative effects may result following exposure\*.

\*(limited evidence)

continued...

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet

Issue Date: 19-Dec-2005

CHEMWATCH 4658-24

CD 2005/4 Page 2 of 9

Section 3 - HAZARDS IDENTIFICATION

---

## POTENTIAL HEALTH EFFECTS

### ACUTE HEALTH EFFECTS

#### SWALLOWED

The material has NOT been classified as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality (death) rather than those producing morbidity (disease, ill-health).

Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, unintentional ingestion is not thought to be cause for concern.

#### EYE

Although the liquid is not thought to be an irritant, direct contact with the eye may produce transient discomfort characterized by tearing or conjunctival redness (as with windburn).

#### SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

#### INHALED

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

### CHRONIC HEALTH EFFECTS

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

---

## Section 4 - FIRST AID MEASURES

---

#### SWALLOWED

- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Center or a doctor.

#### EYE

If this product comes in contact with eyes:

- Wash out immediately with water.
- If irritation continues, seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

continued...

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet

Issue Date: 19-Dec-2005

CHEMWATCH 4658-24

CD 2005/4 Page 3 of 9

Section 4 - FIRST AID MEASURES

---

## SKIN

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

## INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

## NOTES TO PHYSICIAN

Treat symptomatically.

---

## Section 5 - FIRE FIGHTING MEASURES

---

Flash Point (F): Not Applicable

Lower Explosive Limit (%): Not Applicable

Upper Explosive Limit (%): Not Applicable

Autoignition Temp (F): Not Applicable

## EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

## FIRE FIGHTING

- Alert Emergency Responders and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water course.
- Use fire fighting procedures suitable for surrounding area.
- Do not approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

## GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS

- Non combustible.
  - Not considered to be a significant fire risk, however containers may burn.
- Decomposition may produce toxic fumes of, sulfur oxides (SOx), metal oxides.  
May emit poisonous fumes.

## FIRE INCOMPATIBILITY

None known.

## PERSONAL PROTECTION

Glasses:

Chemical goggles.

Gloves:

PVC chemical resistant type.

Respirator:

continued...

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet  
Issue Date: 19-Dec-2005

CHEMWATCH 4658-24  
CD 2005/4 Page 4 of 9

---

## Section 6 - ACCIDENTAL RELEASE MEASURES

---

### MINOR SPILLS

- Clean up all spills immediately.
- Avoid breathing vapors and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.
- Place in a suitable labeled container for waste disposal.

### MAJOR SPILLS

Moderate hazard.

- Clear area of personnel and move upwind.
- Alert Emergency Responders and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labeled containers for recycling.
- Neutralize/decontaminate residue.
- Collect solid residues and seal in labeled drums for disposal.
- Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- If contamination of drains or waterways occurs, advise emergency services.

## ACUTE EXPOSURE GUIDELINE LEVELS (AEGLE) (in ppm)

AEGLE 1: The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic nonsensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure.

AEGLE 2: The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.

AEGLE 3: The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening health effects or death.

---

## Section 7 - HANDLING AND STORAGE

---

### PROCEDURE FOR HANDLING

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.

continued...

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet

Issue Date: 19-Dec-2005

CHEMWATCH 4658-24

CD 2005/4 Page 5 of 9

Section 7 - HANDLING AND STORAGE

- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

## RECOMMENDED STORAGE METHODS

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer
- Check all containers are clearly labeled and free from leaks.

## STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	Peak ppm	Peak mg/m <sup>3</sup>
Canada Ontario Occupational Exposure Limits	Welding fume, not otherwise specified: Aluminum-containing (as Aluminum)		5				
US - Minnesota Permissible Exposure Limits (PELs)	Aluminum (as Al) - Soluble salts		2				
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	Aluminum (as Al) - Soluble salts		2				
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	Aluminum, soluble salts, (as Al)		2		4		
US - Washington Permissible exposure limits of air contaminants	Aluminum (as Al) - Soluble salts		2		4		

continued...

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet

Issue Date: 19-Dec-2005

CHEMWATCH 4658-24

CD 2005/4 Page 6 of 9

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Source	Material	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	Peak ppm	Peak mg/m <sup>3</sup>
NIOSH Recommended Exposure Limits for Hazardous Agents in the Workplace	Aluminum - Soluble salts (as Al)		2				
Canada Ontario Occupational Exposure Limits	Aluminum, water-soluble compounds of		2				
No data available:	aluminium sulfate as (CAS: 10043-01-3)						

No data for Sparkling Clear.

### INGREDIENT DATA

#### ALUMINIUM SULFATE:

The TLV is based on the exposures to aluminum chloride and the amount of hydrolyzed acid and the corresponding acid TLV to provide the same degree of freedom from irritation. Workers chronically exposed to aluminum dusts and fumes have developed severe pulmonary reactions including fibrosis, emphysema and pneumothorax. A much rarer encephalopathy has also been described.

### PERSONAL PROTECTION

#### EYE

- Safety glasses with side shields
- Chemical goggles.
- Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

#### HANDS/FEET

Wear chemical protective gloves, eg. PVC.  
Wear safety footwear or safety gumboots, eg. Rubber.

#### OTHER

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

Use appropriate NIOSH-certified respirator based on informed professional judgement. In conditions where no reasonable estimate of exposure can be made, assume the exposure is in a concentration IDLH and use NIOSH-certified full face pressure demand SCBA with a minimum service life of 30 minutes, or a combination full facepiece pressure demand SAR with auxiliary self-contained air supply. Respirators provided only for escape from IDLH atmospheres shall be NIOSH-certified for escape from the atmosphere in which they will be used.

continued...

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet

Issue Date: 19-Dec-2005

CHEMWATCH 4658-24

CD 2005/4 Page 7 of 9

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

---

### ENGINEERING CONTROLS

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear an approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas.

---

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

---

### PHYSICAL PROPERTIES

Liquid.  
Mixes with water.

Molecular Weight: Not Applicable

Melting Range (C): Not Available

Solubility in water (g/L): Miscible

pH (1% solution): Not Available

Volatile Component (%vol): Not Available

Relative Vapor Density (air=1): Not Available

Lower Explosive Limit (%): Not Applicable

Autoignition Temp (C): Not Applicable

State: Liquid

Boiling Range (C): Not Available

Specific Gravity (water=1): 1.039

pH (as supplied): 3.3-3.6

Vapor Pressure (kPa): Not Available

Evaporation Rate: Not Available

Flash Point (C): Not Applicable

Upper Explosive Limit (%): Not Applicable

Decomposition Temp (°C): Not Available

### APPEARANCE

Clear colorless slightly acidic liquid with no odor; mixes with water.

---

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

---

### CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerization will not occur.

### STORAGE INCOMPATIBILITY

None known.

---

## Section 11 - TOXICOLOGICAL INFORMATION

---

### Sparkling Clear

Not available. Refer to individual constituents.

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances

### ALUMINIUM SULFATE:

#### TOXICITY

Oral (mouse) LD50: 6207 mg/kg

Oral (rat) TDLo: 10138 mg/kg/8D-C

#### IRRITATION

Eye (rabbit): 10 mg/24h SEVERE

continued...

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet  
Issue Date: 19-Dec-2005

CHEMWATCH 4658-24  
CD 2005/4 Page 8 of 9

---

## Section 12 - ECOLOGICAL INFORMATION

---

Marine Pollutant: Not Determined  
DO NOT discharge into sewer or waterways.  
Refer to data for ingredients, which follows:

### ALUMINIUM SULFATE:

Aluminium occurs in the environment in the form of silicates, oxides and hydroxides, combined with other elements such as sodium, fluorine and arsenic complexes with organic matter.

Acidification of soils releases aluminium as a transportable solution.

Mobilisation of aluminium by acid rain results in aluminium becoming available for plant uptake.

Drinking Water Standards:

aluminium: 200 ug/l (UK max.)

200 ug/l (WHO guideline)

chloride: 400 mg/l (UK max.)

250 mg/l (WHO guideline)

fluoride: 1.5 mg/l (UK max.)

1.5 mg/l (WHO guideline)

nitrate: 50 mg/l (UK max.)

50 mg/l (WHO guideline)

sulfate: 250 mg/l (UK max.)

Soil Guideline: none available.

Air Quality Standards: none available.

Toxicity Fish: LC50(12-96)100mg/L

---

## Section 13 - DISPOSAL CONSIDERATIONS

---

### Disposal Instructions

All waste must be handled in accordance with local, state and federal regulations.

- Recycle wherever possible.

- Consult manufacturer for recycling options or consult Waste Management Authority for disposal if no suitable treatment or disposal facility can be identified.

- Dispose of by: Burial in a licensed land-fill or Incineration in a licensed apparatus (after admixture with suitable combustible material)

- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

---

## Section 14 - TRANSPORTATION INFORMATION

---

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

---

## Section 15 - REGULATORY INFORMATION

---

### RISK

None under normal operating conditions.

continued...

# SPARKLING CLEAR

Chemwatch Material Safety Data Sheet

Issue Date: 19-Dec-2005

CHEMWATCH 4658-24

CD 2005/4 Page 9 of 9

Section 15 - REGULATORY INFORMATION

---

## REGULATIONS

### US CERCLA List of Hazardous Substances and Reportable Quantities

Ingredient	CAS	RQ (Pounds)	RQ (KG)
aluminium sulfate	10043-01-3	5000	2270

aluminium sulfate (CAS: 10043-01-3) is found on the following regulatory lists;

Canada Domestic Substances List (DSL)

US - California Occupational Safety and Health Regulations (CAL/OSHA) -

Hazardous Substances List

US CERCLA List of Hazardous Substances and Reportable Quantities

US CWA (Clean Water Act) - List of Hazardous Substances

US CWA (Clean Water Act) - Reportable Quantities of Designated Hazardous

Substances

US EPA Hazardous Substances

US Toxic Substances Control Act (TSCA)

---

## Section 16 - OTHER INFORMATION

---

### LIMITED EVIDENCE

Cumulative effects may result following exposure\*.

\* (limited evidence).

Reasonable care has been taken in the preparation of this information, but the author makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The author makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. For additional technical information please call our toxicology department on +800 CHEMCALL.

Issue Date: 19-Dec-2005

Print Date: 19-Dec-2005

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.