

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

**Product code** AP250  
**Product name** ChargeSwitch® Pro RESUSPENSION BUFFER

### Company/Undertaking Identification

INVITROGEN CORPORATON  
 5791 VAN ALLEN WAY  
 PO BOX 6482  
 CARLSBAD, CA 92008  
 760-603-7200

INVITROGEN CORPORATION  
 5250 MAINWAY DRIVE  
 BURLINGTON, ONT  
 CANADA L7L 6A4  
 800-263-6236

GIBCO PRODUCTS  
 INVITROGEN CORPORATION  
 3175 STALEY ROAD P.O. BOX 68  
 GRAND ISLAND, NY 14072  
 716-774-6700

**24 hour Emergency Response (Transport):** 866-536-0631  
 301-431-8585  
 Outside of the U.S. ++1-301-431-8585

For research use only

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
hydrochloric acid	7647-01-0	0.1

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## 3. HAZARDS IDENTIFICATION

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Form**  
Liquid

#### Principle Routes of Exposure/ Potential Health effects

**Eyes** No information available  
**Skin** No information available  
**Inhalation** No information available  
**Ingestion** No information available

#### Specific effects

**Carcinogenic effects** No information available  
**Mutagenic effects** No information available  
**Reproductive toxicity** No information available  
**Sensitization** No information available

#### Target Organ Effects

No information available

#### HMIS

Health	0
Flammability	0
Reactivity	0

### 4. FIRST AID MEASURES

**Skin contact** Wash off immediately with plenty of water  
**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids.  
**Ingestion** Never give anything by mouth to an unconscious person  
**Inhalation** Move to fresh air  
**Notes to physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Dry chemical  
**Special protective equipment for firefighters** Wear self-contained breathing apparatus and protective suit

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Use personal protective equipment  
**Methods for cleaning up** Soak up with inert absorbent material.

### 7. HANDLING AND STORAGE

**Handling** No special handling advice required  
**Storage** Keep in properly labelled containers

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure controls

#### Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
hydrochloric acid	-	5 ppm 7 mg/m <sup>3</sup>	-	-

**Engineering measures** Ensure adequate ventilation, especially in confined areas

#### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment  
**Hand protection** Protective gloves  
**Eye protection** Safety glasses with side-shields  
**Skin and body protection** Lightweight protective clothing.  
**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice  
**Environmental exposure controls** Prevent product from entering drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Form** Liquid

### Important Health Safety and Environmental Information

**Boiling point/range** °C No data available °F No data available  
**Melting point/range** °C No data available °F No data available  
**Flash point** °C No data available °F No data available  
**Autoignition temperature** °C No data available °F No data available  
**Oxidizing properties** No information available  
**Water solubility** No data available

## 10. STABILITY AND REACTIVITY

**Stability** Stable.  
**Materials to avoid** No information available  
**Hazardous decomposition products** No information available  
**Polymerization** Hazardous polymerisation does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
hydrochloric acid	No data available	No data available	3124 ppm (Rat)

### Principle Routes of Exposure/

#### Potential Health effects

**Eyes** No information available  
**Skin** No information available  
**Inhalation** No information available

Ingestion No information available

**Specific effects**

Carcinogenic effects No information available  
Mutagenic effects No information available  
Reproductive toxicity No information available  
Sensitization No information available

**Target Organ Effects** No information available

**12. ECOLOGICAL INFORMATION**

Ecotoxicity effects No information available.  
Mobility No information available.  
Biodegradation Inherently biodegradable.  
Bioaccumulation Does not bioaccumulate.

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations

**14. TRANSPORT INFORMATION**

**IATA**

Proper shipping name Not classified as dangerous in the meaning of transport regulations  
Hazard Class No information available  
Subsidiary Class No information available  
Packing group No information available  
UN-No No information available

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	PICCS	ENCS	DSL	NDSL	AICS
hydrochloric acid	Listed	Listed	Listed	Listed	-	Listed

**U.S. Federal Regulations**

**SARA 313**

This product is not regulated by SARA.

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight %</u>
hydrochloric acid	7647-01-0	0.1

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight %</u>
hydrochloric acid	7647-01-0	0.1

## U.S. State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
hydrochloric acid	Listed	-	Listed	Listed	Listed

## California Proposition 65

This product does not contain chemicals listed under Proposition 65

## WHMIS hazard class:

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

## 16. OTHER INFORMATION

For research use only

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

**End of Safety Data Sheet**