

Creation Date 07-Aug-2009

Revision Date 07-Aug-2009

Revision Number 1

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

**Product Name** Potassium chloride  
**Cat No.** 196770000; 196770010; 196770050  
**Synonyms** No information available.  
**Recommended Use** Laboratory chemicals

**Company** Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**Emergency Telephone Number** For information in the US, call: 800-ACROS-01  
For information in Europe, call: +32 14 57 52 11  
  
Emergency Number, Europe: +32 14 57 52 99  
Emergency Number, US: 201-796-7100  
  
CHEMTREC Phone Number, US: 800-424-9300  
CHEMTREC Phone Number, Europe: 703-527-3887

**2. HAZARDS IDENTIFICATION**

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

**R -phrase(s)**  
none

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Haz/Non-haz**

Component	Weight %	EC No.	Classification
Potassium chloride 7447-40-7	>95	EEC No. 231-211-8	-

For the full text of the R phrases mentioned in this Section, see Section 16

Potassium chloride

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## 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Do not induce vomiting. Obtain medical attention.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
<b>Notes to Physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Extinguishing media which must not be used for safety reasons

No information available.

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>Flash Point</b>	No information available.
<b>Method</b>	No information available.

<b>Autoignition Temperature</b>	No information available.
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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.
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<b>Environmental Precautions</b>	Should not be released into the environment.
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<b>Methods for Containment and Clean Up</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal Avoid dust formation
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## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Specific use(s)</b>	No information available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

The product does not contain any hazardous materials with occupational exposure limits established.

### Occupational exposure controls

<b>Engineering Measures</b>	Ensure that eyewash stations and safety showers are close to the workstation location Ensure adequate ventilation, especially in confined areas
<b>Personal Protective Equipment</b>	
<b>Respiratory Protection</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Eye Protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Hand Protection</b>	Protective gloves
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure controls</b>	No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid
<b>Appearance</b>	White
<b>Odor</b>	odorless
<b>pH</b>	No information available.
<b>Boiling Point/Range</b>	1420°C / 2588°F @ 760 mmHg
<b>Melting Point/Range</b>	770°C / 1418°F
<b>Flash Point</b>	No information available.
<b>Water Solubility</b>	340 g/l (20°C)
<b>Specific Gravity</b>	1.987
<b>Molecular Formula</b>	Cl K
<b>Molecular Weight</b>	74.54

## 10. STABILITY AND REACTIVITY

Potassium chloride

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## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Hygroscopic.
<b>Conditions to Avoid</b>	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Hydrogen chloride gas
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions .</b>	None under normal processing..

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium chloride	2600 mg/kg ( Rat )		

### Chronic Toxicity

<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product
<b>Sensitization</b>	No information available.
<b>Neurological Effects</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Reproductive Effects</b>	No information available.
<b>Developmental Effects</b>	No information available.
<b>Target Organs</b>	None known.
<b>Other Adverse Effects</b>	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated..

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Potassium chloride

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium chloride	EC50: 2500 mg/L/72h			EC50: 825 mg/L/48h

**Persistence and Degradability** No information available

**Bioaccumulative Potential** No information available.

**Mobility** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste from Residues / Unused Products** Dispose of in accordance with local regulations

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal

## 14. TRANSPORT INFORMATION

**IMDG/IMO** Not regulated

**ADR** Not regulated

**IATA** Not regulated

## 15. REGULATORY INFORMATION

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

### Labelling

**R -phrase(s)**  
none

**S -phrase(s)**

S24/25 - Avoid contact with skin and eyes

### International Inventories

Potassium chloride

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Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Potassium chloride	231-211-8	-		X	X	-	X	X	X	X	KE-29086 X

## 16. OTHER INFORMATION

**Prepared By** Regulatory Affairs  
**Creation Date** 07-Aug-2009  
**Revision Date** 07-Aug-2009  
**Revision Summary** "\*\*\*\*", and red text indicates revision  
**Restrictions on use** No information available.  
**Training advice** No information available.  
**Literary reference** No information available.

### Disclaimer

The information provided on this Safety Data Sheet 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

**Rocker Scientific Co.,Ltd.**

Add. : 11F,NO.402,SEC1,REN-AI RD.,  
LINKOU SHIANG,TAIPEI COUNTY 244,  
TAIWAN(R.O.C)

Tel : 886-2-26033311

Fax : 886-2-26036622

**MSDS No: M168002**

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Buffer Solution pH 4.00 ± 0.02

**Catalog Number:**168400

**Rocker Scientific Co.,Ltd.**

Add. : 11F,NO.402,SEC1,REN-AI RD.,  
LINKOU SHIANG,TAIPEI COUNTY 244,  
TAIWAN(R.O.C)

Tel :+ 886-2-26033311

**MSDS Number:** M168002

**Chemical Name:** pH buffer

**Chemical Formula:** Not applicable

**Chemical Family:** Not

applicable **Hazard:**

Practically non-toxic.

**Date of MSDS Preparation:**

**Day:**3

**Month:** November

**Year:** 2009

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

### Demineralized Water

**Percent Range:** >95.0

**Percent Range Units:** weight / weight

**Hazard:** No effects anticipated.

### Other components, each

**Percent Range:** < 1.0

**Percent Range Units:** volume / volume

**Hazard:** Any ingredient(s) of this product listed as "Other component(s)" is not considered a health hazard

to the user of this product.

### Potassium Acid Phthalate

**TSCA CAS Number:** 877-24-7

**Percent Range:** 1.0 - 5.0

**Percent Range Units:** weight / volume

**Hazard:** May cause irritation.

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## 3. HAZARDS IDENTIFICATION

### **Emergency Overview:**

**Appearance:** Clear, red

liquid **Odor:** None

### **Potential Health Effects:**

**Eye Contact:** No effects are anticipated

**Skin Contact:** No effects are anticipated

**Skin Absorption:** No effects anticipated  
**Target Organs:** Not applicable  
**Ingestion:** No Effects

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#### 4. FIRST AID

**Eye Contact:** Flush eyes with water. Call physician if irritation develops.  
**Skin Contact (First Aid):** Wash skin with soap and plenty of water.  
**Ingestion (First Aid):** Give large quantities of water. Call physician immediately.  
**Inhalation:** None required.

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#### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Material will not burn.  
**Flash Point:** Not applicable  
**Method:** Not applicable  
**Flammability Limits:**  
**Lower Explosion Limits:** Not applicable  
**Upper Explosion Limits:** Not applicable  
**Autoignition Temperature:** Not applicable  
**Hazardous Combustion Products:** Not applicable  
**Fire / Explosion Hazards:** None reported  
**Static Discharge:** None reported.  
**Mechanical Impact:** None reported  
**Extinguishing Media:** Use media appropriate to surrounding fire conditions  
**Fire Fighting Instruction:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

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#### 6. ACCIDENTAL RELEASE MEASURES

**Containment Technique:** Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth).  
**Clean-up Technique:** Absorb spilled liquid with non-reactive sorbent material. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse.

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#### 7. HANDLING / STORAGE

**Handling:** Avoid contact with eyes. Wash thoroughly after handling.  
**Storage:** Keep container tightly closed when not in use.  
**Flammability Class:** Not applicable

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#### 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

**Engineering Controls:** Maintain general industrial hygiene practices when using this product.  
**Personal Protective Equipment:**  
**Eye Protection:** safety glasses with top and side shields  
**Skin Protection:** disposable latex gloves  
**Inhalation Protection:** adequate ventilation  
**Precautionary Measures:** Avoid contact with: eyes. Wash thoroughly after handling.



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## 9. PHYSICAL / CHEMICAL PROPERTIES

**Appearance:** Clear, red liquid  
**Physical State:** Liquid  
**Odor:** None  
**pH:** 4.01  
**Melting Point:** < 0°C (< 32°F)  
**Specific Gravity (water = 1):** 1.002  
**Solubility:**  
**Water:** Soluble  
**Acid:** Soluble  
**Other:** Not determined  
**Metal Corrosivity:** Not determined

## 10. STABILITY / REACTIVITY

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**Chemical Stability:** Stable when stored under proper conditions.  
**Conditions to Avoid:** Extreme temperatures  
**Reactivity / Incompatibility:** None reported  
**Hazardous Decomposition:** None reported.

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## 11. TOXICOLOGICAL INFORMATION

**Product Toxicological Data: LD50:** None reported  
**Skin and Eye Irritation Data:** None reported  
**Mutation Data:** None reported  
**Reproductive Effects Data:** None reported

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## 12. ECOLOGICAL INFORMATION

**Product Ecological Information:** --  
No ecological data available for this product.  
**Ingredient Ecological Information:** --  
No ecological data available for the ingredients of this product.

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## 13. DISPOSAL CONSIDERATIONS

**EPA Waste ID Number:** None  
**Special Instructions (Disposal):** Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain.  
**Empty Containers:** Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.  
**NOTICE (Disposal):** These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

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## 14. TRANSPORT INFORMATION

**D.O.T.:**  
**D.O.T. Proper Shipping Name:** Not Currently Regulated  
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**DOT Hazard Class:**  
**NA DOT Subsidiary**  
**Risk:** NA **DOT ID**

**Number:** NA DOT  
**Packing Group:** NA  
**I.C.A.O.:**  
**I.C.A.O. Proper Shipping Name:** Not Currently Regulated  
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**ICAO Hazard Class:**  
NA ICAO Subsidiary  
**Risk:** NA ICAO ID  
**Number:** NA ICAO  
**Packing Group:** NA  
**I.M.O.:**  
**I.M.O. Proper Shipping Name:** Not Currently Regulated  
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**I.M.O. Hazard Class:**  
NA I.M.O. Subsidiary  
**Risk:** NA I.M.O. ID  
**Number:** NA I.M.O.  
**Packing Group:** NA

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## 15. REGULATORY INFORMATION

### **U.S. Federal Regulations:**

**O.S.H.A.:** This product does not meet the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

### **E.P.A.:**

**S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370):** This product is not hazardous under 29 CFR.1910.1200 and therefore is not covered by Title III under SARA.

**S.A.R.A. Title III Section 313 (40 CFR 372):** This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.

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## 16. OTHER INFORMATION

**Intended Use:** Buffer

**References:** 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor).  
Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's  
Threshold Limit Values and Biological Exposure Indices for

### **Legend:**

NA - Not Applicable	w/w - weight/weight
ND - Not Determined	w/v - weight/volume
NV - Not Available	v/v - volume/volume

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**This information was compiled from current manufacturer's MSDS's of the component parts of the product.**

**Disclaimer:** The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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Tel : 886-2-26033311  
Fax : 886-2-26036622

**MSDS No: M168001**

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Buffer Solution pH 7.00 ± 0.02  
**Catalog Number:**168700

**Rocker Scientific Co.,Ltd.**  
Add. : 11F,NO.402,SEC1,REN-AI RD.,  
LINKOU SHIANG,TAIPEI COUNTY 244,  
TAIWAN(R.O.C)  
Tel :+ 886-2-26033311

**MSDS Number:** M168001  
**Chemical Name:** pH buffer  
**Chemical Formula:** Not applicable  
**Chemical Family:** Not applicable  
**Hazard:** Practically non-toxic.  
**Date of MSDS Preparation:**  
**Day:**3  
**Month:** November  
**Year:** 2009

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

### Potassium Phosphate, Monobasic

**Percent Range:** < 1.0  
**Percent Range Units:** weight / weight  
**Hazard:** May cause irritation.

### Demineralized Water

**Percent Range:** >95.0  
**Percent Range Units:** volume / volume  
**Hazard:** No effects anticipated.

### Other components, each

**Percent Range:** < 1.0  
**Percent Range Units:** volume / volume  
**Hazard:** Any ingredient(s) of this product listed as "Other component(s)" is not considered a health hazard to the user of this product.

### Sodium Phosphate, Dibasic

**Percent Range:** < 1.0  
**Percent Range Units:** weight / weight  
**Hazard:** May cause irritation.

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## 3. HAZARDS IDENTIFICATION

### **Emergency Overview:**

**Appearance:** yellow and clear liquid  
**Odor:** No  
**Potential Health Effects:**  
**Eye Contact:** No effects anticipated  
**Skin Contact:** No effects anticipated  
**Medical Conditions Aggravated:** None reported  
**Chronic Effects:** No effects anticipated

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## 4. FIRST AID

**Eye Contact:** Flush eyes with water. Call physician if irritation develops.

**Skin Contact (First Aid):** Wash skin with plenty of water.

**Ingestion (First Aid):** Give large quantities of water. Call physician immediately.

**Inhalation:** None required.

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## 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Material will not burn.

**Flash Point:** Not

applicable **Method:** Not

applicable **Flammability**

**Limits:**

**Lower Explosion Limits:** Not applicable

**Upper Explosion Limits:** Not applicable

**Autoignition Temperature:** Not applicable

**Hazardous Combustion Products:** None

reported **Fire / Explosion Hazards:** None

reported

**Static Discharge:** None reported.

**Mechanical Impact:** None reported

**Extinguishing Media:** Use media appropriate to surrounding fire conditions

**Fire Fighting Instruction:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

**Containment Technique:** Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth).

**Clean-up Technique:** Absorb spilled liquid with non-reactive sorbent material. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse.

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## 7. HANDLING / STORAGE

**Handling:** Avoid contact with eyes Wash thoroughly after handling. **Storage:** Protect from: heat

Keep container tightly closed when not in use.

**Flammability Class:** Not applicable

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## 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

**Engineering Controls:** Maintain general industrial hygiene practices when using this product.

**Personal Protective Equipment:**

**Eye Protection:** safety glasses with top and side shields

**Skin Protection:** Not applicable

**Inhalation Protection:** adequate ventilation

**Precautionary Measures:** Avoid contact with: eyes Wash thoroughly after handling.

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## 9. PHYSICAL / CHEMICAL PROPERTIES

**Appearance:** Yellow and clear, liquid

**Physical State:** Liquid

**Molecular Weight:** Not applicable

**Odor:** None

**pH:** 7.0 at 25°C

**Vapor Pressure:** Not determined

**Vapor Density (air = 1):** Not determined

**Boiling Point:** ~100°C

(~212°F) **Melting Point:** ~0°C

(~32°F) **Specific Gravity**

(water = 1): ~1.0

**Solubility:**  
**Water:** Soluble  
**Acid:** Soluble  
**Other:** Not determined  
**Metal Corrosivity:** Not determined

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## 10. STABILITY / REACTIVITY

**Chemical Stability:** Stable (be stored under proper conditions).  
**Conditions to Avoid:** Heat Evaporation  
**Reactivity / Incompatibility:** None  
reported **Hazardous Decomposition:**  
None reported

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## 11. TOXICOLOGICAL INFORMATION

**Product Toxicological**  
**Data: LD50:** None  
reported **LC50:** None  
reported  
**Dermal Toxicity Data:** None reported  
**Skin and Eye Irritation Data:** None reported  
**Mutation Data:** None reported  
**Reproductive Effects Data:** None  
reported **Ingredient Toxicological Data:**  
--  
No toxicological data available for the ingredients of this product.

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## 12. ECOLOGICAL INFORMATION

**Product Ecological Information:** --  
No ecological data available for this product.  
**Ingredient Ecological Information:** --  
No ecological data available for the ingredients of this product.

---

## 13. DISPOSAL CONSIDERATIONS

**EPA Waste ID Number:** None  
**Special Instructions (Disposal):** Open cold water tap completely, slowly pour the material to the drain.  
**Empty Containers:** Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.  
**NOTICE (Disposal):** These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

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## 14. TRANSPORT INFORMATION

**D.O.T.:**  
**D.O.T. Proper Shipping Name:** Not Currently Regulated  
**DOT Hazard Class:** NA  
**DOT Subsidiary Risk:**  
NA **DOT ID Number:** NA  
**DOT Packing Group:**  
NA  
**I.C.A.O.:**  
**I.C.A.O. Proper Shipping Name:** Not Currently Regulated

--  
**ICAO Hazard Class:** NA  
**ICAO Subsidiary Risk:** NA  
**ICAO ID Number:** NA  
**I.M.O.:**  
**I.M.O. Proper Shipping Name:** Not Currently Regulated  
**I.M.O. Hazard Class:** NA  
**I.M.O. Subsidiary Risk:**  
**NA I.M.O. ID Number:** NA  
**I.M.O. Packing Group:** NA

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**S.A.R.A. Title III Section 313 (40 CFR 372):** This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.

## 16. OTHER INFORMATION

**Intended Use:** Buffer

**References:** 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor).  
Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's  
Threshold Limit Values and Biological Exposure Indices for

### **Legend:**

NA - Not Applicable	w/w - weight/weight
ND - Not Determined	w/v - weight/volume
NV - Not Available	v/v - volume/volume

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**This information was compiled from current manufacturer's MSDS's of the component parts of the product.**

**Disclaimer:** The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.