

# MATERIAL SAFETY DATA SHEET

Product Name : 750

Date Issued : January 17, 2012

## SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 750  
**Formula :** Multi-component mixture

**Chemical Synonym / C# :** c750  
**Chemical Family:** Alkaline detergent

**Supplier :** Specialty Chemicals Inc. 208 Widedon Landing Hilton, NY 14468  
**Information Telephone :** (585)752-2320 **Emergency Telephone :** (607)529-3218

## SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)	ACGIH TLV (mg/m3)	
			TWA	STEL
Potassium Hydroxide	1310-58-3	< 5.0	-	2 ceiling
1-Hydroxyethylidene-1, 1-Diphosphonic Acid	2809-21-4	< 5.0	-	-
Polymaleic Acid	26099-09-2	> 5.0	-	-
Hydroxyphosphono-Acetic Acid	23783-26-8	< 10.0	-	-

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

## SECTION 3 : HAZARD IDENTIFICATION

**Emergency Overview :** Solutions and powders are severe eye irritants, and prolonged or repeated contact may cause skin irritation. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract. Read the entire MSDS for a more thorough evaluation of the hazards.

**POTENTIAL HEALTH EFFECTS:** Acute: May cause severe irritation to the eyes. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract.

Chronic: May cause irritation of the skin, respiratory airways, mucous membranes and eyes.

**Inhalation:** No test data found for this product.

**Skin Contact:** No test data found for this product.

**Eye Contact:** No test data found for this product.

**Ingestion:** No test data found for this product.

## SECTION 4 : FIRST AID MEASURES

**General:**

**Eye Contact:** Immediately flush contacted area repeatedly with water for at least 15 minutes, holding eyelids open. Contact a physician for treatment.

**Skin Contact:** Immediately flush contacted area repeatedly with water for at least 15 minutes. If irritation persists, contact a physician for treatment.

**Inhalation:** Move victim to fresh air. If irritation persists, seek medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water or milk, then drink dilute vinegar, lemon juice, orange juice, or soda if conscious.

## SECTION 5 : FIRE FIGHTING MEASURES

**Flash Point :** None **Method Used:** N/A **Flammable Limits:** LEL =N/A UEL =N/A

**Extinguishing Media:** None required.

**Fire Fighting Procedures:** Use caution when fighting any fire. Adequate respiratory protection is essential.

**Unusual Fire and Explosion Hazards:** None known.

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:**

**Small Spill:** Absorb with suitable absorbant such as sand or vermiculite.

**Large Spill:** Stop leak at source and contain spill with dike made of inert material such as sand or diatomaceous earth. Pump material to suitable container for possible reuse.

**Solid spill:** Sweep up and return to container.

**Deactivating Chemicals:** Mild acids such as dilute phosphoric will bring the pH to a neutral range.

## SECTION 7 : HANDLING AND STORAGE

**Handling:** Handle with care. Wash thoroughly after handling. Launder contaminated clothing before reuse.

**Storage Requirements:** Keep container closed. For Industrial and commercial use only!

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** None required.

**Ventilation / Local Exhaust :** General room ventilation.

**Ventilation / Mechanical Recommendations:** None required.

**Skin Protection:** Vinyl or rubber protective gloves.

**Eye Protection:** Goggles or face shield.

**Other Protective Equipment:** Vinyl apron (optional).

**Exposure Guidelines:** See section 2 for ACGIH recommendations for each hazardous ingredient.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Appearance / Odor:** Clear liquid, odor nil.

**Water Solubility:** complete

**pH (100%):** 9.0-9.5

**Specific Gravity:** 1.26

**Boiling Point (°F):** 212+

**Evaporation Rate(water=1):** N/A

**% volatile:** N/A

**Vapor Density(air=1):** N/A

**Vapor Pressure(mmHg):** N/A

## SECTION 10 : STABILITY AND REACTIVITY

**Hazardous Decomposition Products:** None.

**Chemical Stability:** Stable.

**Conditions to Avoid:** Splashing solutions, prolonged skin contact.

**Incompatibility with other Substances:** Acids

**Hazardous Polymerization:** Will not occur.

## SECTION 11 : TOXICOLOGICAL INFORMATION

**Toxicological Data:** Toxicological studies were not performed on the blended product, although it is considered to be a severe eye irritant, and moderately irritating to the skin.

**Toxicological Data (as Potassium Hydroxide):**

Oral LD50 (rat) : 500 mg/kg

**Toxicological Data (as 1-Hydroxyethylidene-1, 1-Diphosphonic Acid):**

Oral LD50 (rat) : 2400 mg/kg

Dermal LD50 (rabbit) = >7940 mg/kg

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## Toxicological Data ( as Polymaleic Acid) :

Oral LD50 (rat) : 1500 mg/kg (neutralized, similiar product)  
Dermal LD50 = no data available.

## Toxicological Data (as Hydroxyphosphono-Acetic Acid) :

Oral LD50 (rat) : 2750 mg/kg  
Dermal LD50 = no data available.

**Carcinogenicity:** This product does not contain any materials considered to be carcinogenous according to OSHA, NTP, IARC, or ACGIH.

## SECTION 12 : ECOLOGICAL INFORMATION

**Exotoxicological Information:** No data found for the blended product.

**Environmental Effects:** No data found for the blended product.

**Persistence and Degradation:** No data found for the blended product.

### **Exotoxicological Information (as 1-Hydroxyethylidene-1, 1-Diphosphonic Acid):**

This ingredient has low avian toxicity, is moderately toxic to algae, slightly toxic to oysters, and is practically non-toxic to fish and invertebrates.

### **Chemical Fate Information (as 1-Hydroxyethylidene-1, 1-Diphosphonic Acid):**

This ingredient has slow to intermediate biodegradation classification.

### **Exotoxicological Information (as Polymaleic Acid):**

This ingredient is expected to have low toxicity to fish (LC50>100ppm), and aquatic invertebrates (LC50>580ppm). Suggested ambient pH values for domestic water supplies range between 5.0 - 9.0, for freshwater aquatic life between 6.5 - 9.0, and for marine life between 6.5 and 8.5 (but not more than 0.2 units outside of the normally occurring range).

### **Chemical Fate Information (as Polymaleic Acid):**

This ingredient is not expected to bioaccumulate in fish or plants. It may accumulate in activated sludge, and to a lesser degree algae. It is not expected to significantly undergo biodegradation but may undergo photolysis. This product may cause a decrease in the pH.

### **Exotoxicological Information (as Hydroxyphosphono-Acetic Acid) :**

Fish Toxicity (Rainbow trout, 96 hr LC50) = 180ppm  
Invertebrate Toxicity (Daphnia magna, 24 hr, EC50) = 140ppm  
Algae Toxicity (EBC50, 0-72 Hr) = 50.1ppm ; (NOEBC, 0-72 Hr) = 8.75ppm

### **Chemical Fate Information (as Hydroxyphosphono-Acetic Acid):**

Effluent Data - BOD : Modified Sturm Test - not readily biodegradable.  
Closed Bottle Test 301D: not readily biodegradable, but susceptible to biodegradation.  
Aerobic Sewage OECD Test: biological elimination of 74.5%; inherently biodegradable.  
Effluent Data - COD: 0.2 g COD/g.  
Sewage Bacterial Toxicity: aerobic waste water bacteria: IC20, IC50, IC100 > 100ppm.

## SECTION 13 : DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Neutralize spent solutions to an acceptable pH level. Allow oils to separate and decant if possible. Detergent portion is 100% biodegradable.

**Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded? No**  
**If yes, the RCRA ID number is : N/A**

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## SECTION 14 : TRANSPORTATION INFORMATION

**Transportation Emergency Telephone Number:** 3E 24 hour number : (866)302-6855\*

\*Please refer to c# referenced in section 1 of this msds.

**DOT Proper Shipping Name:** Not Regulated (Compound, cleaning, liquid, NOIBN)

**DOT Hazard Class / Product Identification Number / Packing Group / DOT Label:**  
NOIBN

## SECTION 15 : REGULATORY INFORMATION

### US FEDERAL REGULATIONS :

**TSCA (Toxic Substances Control Act) Status :** TSCA (United States) The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a) :**

<u>Component</u>	<u>Weight %</u>	<u>RQ (lbs)</u>
POTASSIUM HYDROXIDE	< 5.0	1000
Maleic Acid	< 1.0	5000

**SARA 302 Components - 40 CFR 355 Appendix A**

<u>Section 302 Component(s)</u>	<u>TPQ (lbs)</u>	<u>RQ (lbs)</u>
none		

**SARA 311/312 Classification - 40 CFR 370.2 :**

(as Potassium Hydroxide) : Immediate, Delayed

(as 1-Hydroxyethylidene-1, 1-Diphosphonic Acid) : Immediate (Acute) health hazard  
Threshold Planning Quantity (as 1-Hydroxyethylidene-1, 1-Diphosphonic Acid) = 10,000 lbs.

(as Polymaleic Acid) : Immediate (Acute) and delayed (chronic) health hazards  
Threshold Planning Quantity (as Polymaleic Acid) = 10,000 lbs.

(as Hydroxyphosphono-Acetic Acid): Immediate (Acute) health hazard  
Threshold Planning Quantity (as Hydroxyphosphono-Acetic Acid) = 10,000 lbs.

**SARA 313 Components - 40 CFR 372.65:**

<u>Section 313 Component(s)</u>	<u>CAS #</u>	<u>%</u>
none		

### INTERNATIONAL REGULATIONS:

**Inventory Status (as Potassium Hydroxide):**

**CEPA - Domestic Substances List :**

The components of Potassium Hydroxide are on the DSL.

**Inventory Status (as 1-Hydroxyethylidene-1, 1-Diphosphonic Acid):**

**WHMIS Information :** the classification for 1-Hydroxyethylidene-1, 1-Diphosphonic Acid is : Toxic, Corrosive, D.2.B, E

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## Inventory Status (as Polymaleic Acid):

WHMIS Information : the classification for Polymaleic Acid is : Toxic, D.2.B

## Inventory Status (as Hydroxyphosphono-Acetic Acid):

WHMIS Information : the classification for Hydroxyphosphono-Acetic Acid is : Toxic, Corrosive, D.2.B, E

## STATE AND LOCAL REGULATIONS:

California Safe Drinking Water Act (Prop. 65) Listing : None listed.

### Other Regulations / Legislation which apply to this product:

(as Potassium Hydroxide) : Pennsylvania Right-to-Know, New Jersey Right-to-Know.

## SECTION 16 : OTHER INFORMATION

NFPA Rating :       HEALTH: 1       FLAMMABILITY: 0       REACTIVITY: 0  
NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

*Information and data compiled to compose this MSDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.*