

# Optix HP

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 07/05/2016 Date of Issue: 07/05/2016

Version: 1.0

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Optix HP

**Product Code:** 16688

\*This document is intended to be used for safety in the workplace only, and is not a consumer document.

### 1.2. Intended Use of the Product

Laundry detergent

### 1.3. Name, Address, and Telephone of the Responsible Party

Faultless Starch/ Bon Ami Co.

1025 W 8th St.

Kansas City, MO 64101 USA

T: 1-816-842-1230

[www.faultless.com](http://www.faultless.com)

### 1.4. Emergency Telephone Number

**Emergency Number** : 1-800-424-9300 (CHEMTREC)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### GHS-US Classification

Ox. Sol. 3 H272

Met. Corr. 1 H290

Acute Tox. 4 (Oral) H302

Skin Corr. 1B H314

Eye Dam. 1 H318

Skin Sens. 1 H317

STOT SE 3 H335

Aquatic Acute 2 H401

Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

### 2.2. Label Elements

#### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H272 - May intensify fire; oxidizer.  
H290 - May be corrosive to metals.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H335 - May cause respiratory irritation.  
H401 - Toxic to aquatic life.  
H411 - Toxic to aquatic life with long lasting effects.

##### Precautionary Statements (GHS-US)

: P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.  
P220 - Keep/Store away from combustible material, oxidizable materials, and incompatible materials.  
P221 - Take any precaution to avoid mixing with combustible material, oxidizable materials, and incompatible materials.

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P234 - Keep only in original container.  
P260 - Do not breathe vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a poison center or doctor.  
P321 - Specific treatment (see section 4 on this SDS).  
P330 - Rinse mouth.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.  
P390 - Absorb spillage to prevent material damage.  
P391 - Collect spillage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P406 - Store in corrosive resistant container with a resistant inner liner.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Corrosive to the respiratory tract.

### 2.4. Unknown Acute Toxicity (GHS-US) No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	% (w/w)
Disodium carbonate	(CAS No) 497-19-8	15 - 30
Sodium percarbonate	(CAS No) 15630-89-4	20 - 30
Sodium metasilicate	(CAS No) 6834-92-0	15 - 20
Benzenesulfonic acid, C10-16-alkyl derivatives, sodium salts	(CAS No) 68081-81-2	3 - 7
Zeolite	(CAS No) 1318-02-1	3 - 5
Terpenes and Terpenoids, sweet orange-oil	(CAS No) 68647-72-3	1 - 2.5
Alcohols, C9-11, ethoxylated	(CAS No) 68439-46-3	1.5 - 2.5
Alcohols, C12-15, ethoxylated	(CAS No) 68131-39-5	1 - 1.5
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides	(CAS No) 61791-10-4	0.1 - 1
Tinopal CBS	(CAS No) 27344-41-8	0.1 - 1
Glycerin	(CAS No) 56-81-5	0.1 - 1
Subtilisins (proteolytic enzymes)	(CAS No) 9014-01-1	< 0.1

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The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]. A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.

**Eye Contact:** Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Skin sensitization. May cause respiratory irritation.

**Inhalation:** Irritation of the respiratory tract and the other mucous membranes. May be corrosive to the respiratory tract. May cause an allergic reaction in sensitive individuals.

**Skin Contact:** Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.

**Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None known.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog (flooding amounts). Dry chemical, foam, carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** May intensify fire; oxidizer.

**Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Contact with metallic substances may release flammable hydrogen gas.

**Reactivity:** Oxidizer: increases the burning rate of combustible materials. May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** May intensify fire; oxidizer. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons. Nitrogen oxides. Sodium oxides. Sulfur oxides. Halogenated Compounds. Hydrogen chloride.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

#### Reference to Other Sections

Refer to Section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

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**General Measures:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep away from combustible material. Do not get in eyes, on skin, or on clothing. Do not breathe dust.

### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

## 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

## 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** As an immediate precautionary measure, isolate spill or leak area in all directions. Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Use only non-sparking tools.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Do not take up in combustible material such as: saw dust or cellulosic material. Recover the product by vacuuming, shoveling or sweeping. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

## 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May cause or intensify fire; oxidizer. May be corrosive to metals. May release corrosive vapors.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep away from heat, sparks, open flames, hot surfaces, combustible materials, incompatible materials. - No smoking. Keep away from combustible material. Handle empty containers with care because they may still present a hazard.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a fireproof place. Storage areas should be checked periodically for corrosion and integrity. Store in original container or corrosive resistant and/or lined container.

**Incompatible Products:** Strong acids, strong bases, strong oxidizers. Metals. Heavy metal salts. Combustible materials. Organic materials. Reducing agents.

### 7.3. Specific End Use(s)

Laundry detergent

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Subtilisins (proteolytic enzymes) (9014-01-1)		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
Alberta	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
British Columbia	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
Manitoba	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
New Brunswick	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup> (proteolytic enzymes)

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<b>Newfoundland &amp; Labrador</b>	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup> (Proteolytic enzymes)
<b>Northwest Territories</b>	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
<b>Ontario</b>	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
<b>Québec</b>	PLAFOND (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup> (Proteolytic enzymes)
<b>Saskatchewan</b>	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
<b>Yukon</b>	OEL Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup> (Proteolytic enzymes)
<b>Glycerin (56-81-5)</b>		
<b>Mexico</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (mist, total particulate) 5 mg/m <sup>3</sup> (mist, respirable fraction)
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist) 3 mg/m <sup>3</sup> (mist-respirable)
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (mist)
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
<b>Northwest Territories</b>	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (mist)
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
<b>Saskatchewan</b>	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (mist)
<b>Saskatchewan</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	30 mppcf (mist) 10 mg/m <sup>3</sup> (mist)

## 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Wear fire/flame resistant/retardant clothing. Corrosion-proof clothing.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Chemical safety goggles and face shield.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Environmental Exposure Controls:** Avoid release to the environment.

**Other Information:** When using, do not eat, drink or smoke

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State** : Solid

**Appearance** : White and blue powder

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<b>Odor</b>	: Citrus
<b>Odor Threshold</b>	: Not available
<b>pH</b>	: 10.8 - 11.8 (1%)
<b>Evaporation Rate</b>	: Not available
<b>Melting Point</b>	: Not available
<b>Freezing Point</b>	: Not available
<b>Boiling Point</b>	: Not available
<b>Flash Point</b>	: Not available
<b>Auto-ignition Temperature</b>	: Not available
<b>Decomposition Temperature</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not available
<b>Lower Flammable Limit</b>	: Not available
<b>Upper Flammable Limit</b>	: Not available
<b>Vapor Pressure</b>	: Not available
<b>Relative Vapor Density at 20°C</b>	: Not available
<b>Relative Density</b>	: Not available
<b>Specific Gravity</b>	: Not available
<b>Solubility</b>	: Not available
<b>Partition Coefficient: N-Octanol/Water</b>	: Not available
<b>Viscosity</b>	: Not available
<b>Explosion Data - Sensitivity to Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact.
<b>Explosion Data - Sensitivity to Static Discharge</b>	: Static discharge could act as an ignition source

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Oxidizer: increases the burning rate of combustible materials. May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas.
- 10.2. Chemical Stability:** May cause fire or explosion; strong oxidizer.
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, ignition sources, combustible materials, incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Metals. May be corrosive to metals. Heavy metal salts. Combustible materials. Organic materials. Reducing agents.
- 10.6. Hazardous Decomposition Products:** None known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity:** Oral: Harmful if swallowed.

**LD50 and LC50 Data:**

<b>Optix HP</b>	
<b>ATE (Oral)</b>	1,868.28 mg/kg body weight

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**pH:** 10.8 - 11.8 (1%)

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**pH:** 10.8 - 11.8 (1%)

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

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**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. May be corrosive to the respiratory tract. May cause an allergic reaction in sensitive individuals.

**Symptoms/Injuries After Skin Contact:** Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None known.

### 11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<b>Disodium carbonate (497-19-8)</b>	
LD50 Oral Rat	4090 mg/kg
LC50 Inhalation Rat	2300 mg/m <sup>3</sup> (Exposure time: 2 h)
<b>Sodium metasilicate (6834-92-0)</b>	
LD50 Oral Rat	1153 mg/kg
<b>Alcohols, C9-11, ethoxylated (68439-46-3)</b>	
LD50 Oral Rat	1400 mg/kg
LD50 Dermal Rat	> 2 g/kg
<b>Sodium percarbonate (15630-89-4)</b>	
LD50 Oral Rat	1034 mg/kg
<b>Subtilisins (proteolytic enzymes) (9014-01-1)</b>	
LD50 Oral Rat	3700 mg/kg
ATE (Oral)	500.00 mg/kg body weight
<b>Benzenesulfonic acid, C10-16-alkyl derivatives, sodium salts (68081-81-2)</b>	
ATE (Oral)	500.00 mg/kg body weight
<b>Alcohols, C12-15, ethoxylated (68131-39-5)</b>	
LD50 Oral Rat	1600 mg/kg
LD50 Dermal Rabbit	2500 mg/kg
<b>Zeolite (1318-02-1)</b>	
LD50 Oral Rat	5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	2.4 mg/l (Exposure time: 1 h)
LC50 Inhalation Rat	> 3.35 mg/l/4h (Exposure time: 4 h)
<b>Tinopal CBS (27344-41-8)</b>	
LD50 Oral Rat	5580 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	3.6 mg/l/4h
LC50 Inhalation Rat	3.66 mg/l/4h
<b>Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides (61791-10-4)</b>	
LD50 Oral Rat	580 mg/kg
ATE (Oral)	580.00 mg/kg body weight
<b>Glycerin (56-81-5)</b>	
LD50 Oral Rat	23000 mg/kg
LD50 Dermal Rabbit	> 10 g/kg
LC50 Inhalation Rat	> 570 mg/m <sup>3</sup> (Exposure time: 1 h)

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### Zeolite (1318-02-1)

IARC Group

3

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### Disodium carbonate (497-19-8)

LC50 Fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

#### Sodium metasilicate (6834-92-0)

LC50 Fish 1	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 Fish 2	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

#### Sodium percarbonate (15630-89-4)

LC50 Fish 1	70.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	4.9 mg/l (Exposure time: 48 h - Species: Daphnia pulex)
NOEC Chronic Fish	7.4 mg/l
NOEC Chronic Crustacea	2 mg/l

#### Subtilisins (proteolytic enzymes) (9014-01-1)

LC50 Fish 1	14.6 mg/l
EC50 Daphnia 1	0.306 mg/l
ErC50 (algae)	0.513 (0.513 - 1.48) mg/l
NOEC Chronic Fish	2 mg/l
NOEC Chronic Crustacea	0.019 mg/l

#### Alcohols, C12-15, ethoxylated (68131-39-5)

LC50 Fish 1	0.59 mg/l
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#### Zeolite (1318-02-1)

LC50 Fish 1	1800 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
EC50 Daphnia 1	1000 - 1800 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	3200 - 5600 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])

#### Tinopal CBS (27344-41-8)

LC50 Fish 1	76 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 2	10 (10.0 - 11.0) mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
NOEC (Acute)	1.37 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])

#### Glycerin (56-81-5)

LC50 Fish 1	54000 (51000 - 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
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### 12.2. Persistence and Degradability

#### Optix HP

Persistence and Degradability	May cause long-term adverse effects in the environment.
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### 12.3. Bioaccumulative Potential

#### Optix HP

Bioaccumulative Potential	Not established.
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#### Disodium carbonate (497-19-8)

BCF Fish 1	(no bioaccumulation)
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#### Sodium percarbonate (15630-89-4)

BCF Fish 1	(no bioaccumulation)
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#### Tinopal CBS (27344-41-8)

BCF Fish 1	< 1
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<b>Glycerin (56-81-5)</b>	
<b>BCF Fish 1</b>	(no bioaccumulation)
<b>Log Pow</b>	-1.76

**12.4. Mobility in Soil** Not available

**12.5. Other Adverse Effects**

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

**14.1. In Accordance with DOT**

**Proper Shipping Name** : CORROSIVE SOLIDS, OXIDIZING, N.O.S. (Sodium metasilicate; Sodium percarbonate)

**Hazard Class** : 8

**Identification Number** : UN3084

**Label Codes** : 8, 5.1

**Packing Group** : II

**Marine Pollutant** : Marine pollutant

**ERG Number** : 140



**14.2. In Accordance with IMDG**

**Proper Shipping Name** : CORROSIVE SOLID, OXIDIZING, N.O.S. (Sodium metasilicate; Sodium percarbonate)

**Hazard Class** : 8

**Subsidiary Risk(s)** : 5.1

**Identification Number** : UN3084

**Packing Group** : II

**Label Codes** : 8, 5.1

**EmS-No. (Fire)** : F-A

**EmS-No. (Spillage)** : S-Q

**Marine Pollutant** : Marine pollutant



**14.3. In Accordance with IATA**

**Proper Shipping Name** : CORROSIVE SOLID, OXIDIZING, N.O.S. (Sodium metasilicate; Sodium percarbonate)

**Packing Group** : II

**Identification Number** : UN3084

**Hazard Class** : 8

**Label Codes** : 8, 5.1

**Subsidiary Risk(s)** : 5.1

**ERG Code (IATA)** : 8X



**14.4. In Accordance with TDG**

**Proper Shipping Name** : CORROSIVE SOLID, OXIDIZING, N.O.S. (Sodium metasilicate; Sodium percarbonate)

**Packing Group** : II

**Hazard Class** : 8

**Identification Number** : UN3084

**Label Codes** : 8, 5.1

**Marine Pollutant (TDG)** : Marine pollutant



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## SECTION 15: REGULATORY INFORMATION


### 15.1. US Federal Regulations

<b>Optix HP</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Fire hazard Immediate (acute) health hazard
<b>Disodium carbonate (497-19-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium metasilicate (6834-92-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Terpenes and Terpenoids, sweet orange-oil (68647-72-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Alcohols, C9-11, ethoxylated (68439-46-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium percarbonate (15630-89-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Subtilisins (proteolytic enzymes) (9014-01-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Benzenesulfonic acid, C10-16-alkyl derivatives, sodium salts (68081-81-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Alcohols, C12-15, ethoxylated (68131-39-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Tinopal CBS (27344-41-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides (61791-10-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Glycerin (56-81-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule

### 15.2. US State Regulations

<b>Glycerin (56-81-5)</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

### 15.3. Canadian Regulations

<b>Optix HP</b>	
WHMIS Classification	Class C - Oxidizing Material Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	
<b>Disodium carbonate (497-19-8)</b>	
Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List)	

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IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Sodium metasilicate (6834-92-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
<b>Terpenes and Terpenoids, sweet orange-oil (68647-72-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Alcohols, C9-11, ethoxylated (68439-46-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Sodium percarbonate (15630-89-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Subtilisins (proteolytic enzymes) (9014-01-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Benzenesulfonic acid, C10-16-alkyl derivatives, sodium salts (68081-81-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Alcohols, C12-15, ethoxylated (68131-39-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Zeolite (1318-02-1)</b>	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Tinopal CBS (27344-41-8)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 0.1 %	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides (61791-10-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Glycerin (56-81-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

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### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 07/05/2016  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

#### GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Ox. Sol. 3	Oxidizing solids Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

#### Party Responsible For The Preparation Of This Document

Faultless Starch/ Bon Ami Co.: 1-816-842-1230 (for product information); 1-800-424-9300 (for emergencies)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS