



Saffire Blue inc., 1444 Bell Mill Side Road, Tillsonburg, ON N4G4G9 Canada

SAFETY DATA SHEET

PRODUCT NAME: **PHYTOKERATIN PF**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

DISTRIBUTED BY	REVISION DATE:	05/18/2015
	SUPERCEDES:	05/07/2008
Saffire Blue inc. 1444 Bell Mill Side Road Tillsonburg, ON N4G4G9 Canada	MSDS Number:	000000022424
	SYNONYMS:	None
	CHEMICAL FAMILY:	Mixture
	DESCRIPTION / USE	Personal care
	FORMULA:	Not applicable/Mixture

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 (HazCom2012).

GHS Label element

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 (HazCom2012).
Based on available data, the classification criteria are not met. Handle in accordance with good industrial hygiene and safety practice.

Precautionary statements

: **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P270 Do not eat, drink or smoke when using this product.

Response:

P314 Get medical advice/ attention if you feel unwell.

Storage:

P410 + P403 Protect from sunlight. Store in a well-ventilated place.
P402 + P404 Store in a dry place. Store in a closed container.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.



Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Hydrolyzed Corn Protein	100209-41-4 / 73049-73-7 [AIC's, EU, INCI]	
Hydrolyzed Wheat Protein	100209-50-5 / 70084-87-6	
Hydrolyzed Soy Protein	68607-88-5	
Phenoxyethanol	122-99-6	0.90 - 1.10

SECTION 4. FIRST AID MEASURES

Inhalation:	IF INHALED: Remove individual to fresh air.
Skin Contact:	IF ON SKIN: Flush skin with water for 15 minutes. Call a physician if irritation develops.
Eye Contact:	IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Ingestion:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or explosive.

Flammable Properties

Flash Point:	200 °C
Autoignition Temperature:	None
Fire / Explosion Hazards:	Material will not ignite or burn.
Extinguishing Media:	Not Applicable. - Choose extinguishing media suitable for surrounding materials.
Fire Fighting Instructions:	In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Hazardous Combustion Products:	Carbon monoxide, Carbon dioxide



SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: No extra protection required beyond that listed in Section 8. In case of fire, use normal fire fighting equipment.

Spill Mitigation Procedures

Air Release:

Not applicable

Water Release:

This material is soluble in water. Retain all contaminated water for removal and treatment. Notify all downstream users of possible contamination.

Land Release:

Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Contain all liquids for treatment or disposal. Do not place spill materials back in their original containers.

Additional Spill Information :

Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

SECTION 7. HANDLING AND STORAGE

Handling: Do not take internally. Do not eat or drink when handling. Warm Gently & Mix Well Prior to Using.

Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials.

Shelf Life Limitations: Shelf Life is 1 year from date of manufacture (located on the C of A) in an unopened container. Once material is opened, material should be tested to confirm in spec.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Additional ventilation beyond that of general exhaust is not normally required. No exposure limits exist for the constituents of this product.

Protective Equipment for Routine Use of Product

Respiratory Protection : Respiratory protection not normally needed.

Skin Protection : Wear impermeable gloves.

Eye Protection: Use safety glasses with side shields.

Protective Clothing Type: Impervious

Components with workplace control parameters



no data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	liquid
Color:	Brown
Odor:	Slight, Characteristic
Molecular Weight:	Not Applicable/Mixture
pH :	5.0 - 6.0 as is (@ 25 Deg. C)
Boiling Point:	221 °F (105 °C) No data
Density:	No data
Vapor Pressure:	Same as water
Vapor Density:	Same as water
Viscosity:	No data
Fat Solubility:	No data
Solubility in Water:	soluble
Partition coefficient n-octanol/water:	No data
Evaporation Rate:	No data
Oxidizing:	No data
Volatiles, % by vol.:	< 80%
VOC Content	0.00 wt%/wt / 0.00 lb/gal
HAP Content	0.00 wt%/wt / 0.00 lb/gal

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Not sensitive to mechanical shock. Not sensitive to static discharge. Product will not undergo hazardous polymerization.
Conditions to Avoid:	High temperatures
Chemical Incompatibility:	Strong oxidizing agents
Hazardous Decomposition Products:	carbon monoxide, Carbon dioxide
Decomposition Temperature:	No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Hydrolyzed Wheat Protein	No data
Phenoxyethanol	LD50 = 1,260 mg/kg Rat

Component Animal Toxicology

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Dermal LD50 value:

Hydrolyzed Wheat Protein No data
Phenoxyethanol LD50 > 5,000 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

Hydrolyzed Wheat Protein No data
Phenoxyethanol No data

Product Animal Toxicity

Oral LD50 value: LC50 Believed to be > 5.0 g/kg; practically non-toxic

Dermal LD50 value: LD50 Believed to be > 2.0 g/kg; practically non-toxic

Inhalation LC50 value: LC50 No data

Skin Irritation: Not expected to be irritating to the skin.
Eye Irritation: Not expected to be irritating.
Skin Sensitization: None known or reported.

Phenoxyethanol Negative skin sensitizer, guinea pig - Magnusson-Kligman method., This material tested negative for skin sensitization in humans.

Subchronic / Chronic Toxicity: Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Phenoxyethanol This chemical has been tested in laboratory animals and no evidence of teratogenicity, embryotoxicity or fetotoxicity was seen.

Mutagenicity: Not known or reported to be mutagenic.

Phenoxyethanol This chemical has been shown to be non-mutagenic based on a battery of assays.

Carcinogenicity: This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

Phenoxyethanol This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

SECTION 12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:



Ecological Toxicity Values for: Phenoxyethanol

Pimephales promelas (fathead minnow) - 96 h LC50 = 337-352 mg/l
Harlequin fish, red rasbora - 48 h LC50 = 135 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary : Spent or discarded material is not expected to be a hazardous waste.

Disposal Methods : As a nonhazardous liquid waste, it should be disposed of in accordance with local, state, and federal regulations by incineration.

Potential US EPA Waste Codes : Not applicable

SECTION 14. TRANSPORT INFORMATION

DOT
Not dangerous goods

TDG
Not dangerous goods

IATA
Not dangerous goods

IMDG-CODE
Not dangerous goods

SECTION 15. REGULATORY INFORMATION



US State Regulations

The components of this product are reported in the following inventories:

TSCA : Components are for use only in formulating cosmetic products and thus, are exempt from TSCA regulations .

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

SECTIONS REVISED: 1, 2, 3, 8, 9, 11, 12, 15
Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. SAFFIRE BLUE INC. BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS.
