

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name PhytoVie® Defense
INCI Name Brassica Campestris / Aleurites Fordi Oil Copolymer

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Recommended use of substance/preparation as ingredient in cosmetics applications

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer: TRI-K INDUSTRIES, INC.
2 Stewart Court
Denville, NJ 07834
Information Phone Number: +1 (973) 298-8850
E-mail info@tri-k.com

1.4 Emergency Telephone Number:

Emergency Spill Information +1 (973) 298-8850 (TRI-K Industries, Inc.)
+1 (800) 222-1222 (National Poison Control Center)

24-HOUR EMERGENCY TELEPHONE NUMBER CHEMTREC +1 (800) 424-9300 or +1 (703) 527-3887

SDS Preparation Date: May 22, 2019

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:
The substance does not meet the criteria for a hazardous substance

Classification according to Directive 1999/45/EC [DPD]:
The substance does not meet the criteria for dangerous substances

2.2 Label Elements: Labeling according to Regulation (EC) No 1272/2008 [CLP]
Not applicable

Hazard Statement: Not applicable
Precautionary Statement: Not applicable

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	EINECS#	DSD Classification (67/548/EEC)	CLP Classification (EC) No 1272/2008	%
Brassica Campestris / Aleurites Fordi Oil Copolymer	185323-46-0	606-051-0	Not classified as dangerous	01-2120777699-27-XXXX	99.9%

Additional information: For full text of H-statements and R-phrases: see SECTION 16

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: Flush with water; seek medical advice if discomfort persists

Skin Contact: Wash material off the skin with soap and water

Inhalation: Not applicable, avoid breathing liquid or aerosols of material

Ingestion: Drink water, seek medical attention

4.2 Most Important symptoms and effects, both acute and delayed:

Not expected to be a skin or eye irritant (based on available data). Non-toxic by oral ingestion (based on nature of material). No other adverse clinical effects are known to be associated with exposure to this material.

4.3 Indication of any immediate medical attention and special treatment needed:

No immediate medical treatment normally needed.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media:

Dry chemical, CO₂, foam, halon, water spray (fog)

5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: None known

Hazardous Decomposition Products: None known

5.3 Advice for Fire-Fighters:

Special Fire Fighting Procedures:

Self-contained breathing apparatus with full-face piece and protective clothing. Do not use direct or heavy water stream to fight fire as it may splash burning liquid.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Ensure adequate ventilation. Use mask for eye/face protection.

6.2 Environmental Precautions:

Non-hazardous but avoid direct releases to the environment

6.3 Methods and Material for Containment and Cleaning Up:

Pick up with absorbent material and collect for disposal

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment and Section 13 for disposal considerations

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Keep working place well ventilated; no special precautions are needed under normal use conditions

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in closed containers between 10°C and 40°C. Keep away from oxidizing agents, excessive heat and ignition sources. Store and use in well ventilated areas. Nitrogen cap open drums before re-sealing. Do not store or use near heat, spark or flame. Avoid sunlight. Do not puncture, drag or slide container. Drum is not a pressure vessel; never use pressure to empty.

7.3 Specific end use(s): Active ingredient in cosmetic and personal care applications

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	8.1.1 Occupational Exposure Limits:	8.1.2 Additional exposure limits under the conditions of use:	8.1.3 DNEL/DMEL and PNEC-Values:
Brassica Campestris / Aleurites Fordi Oil Copolymer	No limits established	Not Available	Not Available

8.2 Exposure Controls:

8.2.1 Appropriate Engineering Controls: General mechanical ventilation is acceptable

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Chemical goggles with side splash protection recommended

Hand Protection: Oil resistant gloves, heat-resistant rubber gloves

Body Protection: None required under normal conditions of use

Respiratory Protection: None required under normal conditions of use

Thermal Hazards: None required under normal conditions of use

Other: An eye wash facility should be available in the work area. Employees must practice good personal hygiene, washing exposed areas of the skin several times daily. Launder contaminated clothing before re-use.

8.2.3 Environmental Exposure Controls: Non-hazardous but avoid direct releases to the environment

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Yellow Liquid	Vapor Pressure: <1 mm Hg
Odor: Bland	Vapor Density: >1
Odor Threshold: No data available	Specific Gravity: 0.91 @ ~ 25°C
pH: No data	Water Solubility: Insoluble
Melting Point / freezing point: Not determined	Partition coefficient: n-octanol/water: Not Available
Boiling Point: > 300°C	Auto-ignition Temperature: Not Available
Flash Point (COC): >175°C	Decomposition Temperature: Not Available
Evaporation Rate: Not Applicable	Viscosity (cP): Not determined
Flammability (solid, gas): Not Applicable	Explosion Properties: None
Upper/lower flammability or explosive limits: Not Applicable	Oxidizing Properties: None

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive under normal conditions of use

10.2 Chemical Stability:

No known hazardous reactions

10.3 Possibility of Hazardous Reactions:

None known

10.4 Conditions to Avoid:

Gross bacterial contamination

10.5 Incompatible Materials:

Concentrated nitric or sulfuric acid, strong oxidizing agents.

10.6 Hazardous Decomposition Products:

Burning can produce smoke, CO, CO₂, ammonia and other products of incomplete combustion

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

- Acute toxicity:** Oral innocuity at a dose of >2ml/kg based on testing of similar materials.
- Irritation:** HRIPT results indicate that the product is non-irritating.
- Corrosivity:** This is not a corrosive product.
- Sensitization:** HRIPT results indicate that the product is non-sensitizing.
- Repeated dose toxicity:** No data available
- Carcinogenicity:** None of the components are listed as a carcinogen by IARC, NTP, OSHA, ACGIH or the EU Substances Directive.
- Mutagenicity:** AMES test results indicate that this product is nonmutagenic.
- Toxicity for reproduction:** Not expected to affect reproduction or development.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: No ecotoxicity data available

- Acute (short-term) toxicity:** N/A
- Fish:** N/A
- Crustacea:** N/A
- Algae/aquatic plants:** N/A
- Other organisms:** N/A
- Chronic (long-term) toxicity:** N/A
- Fish:** N/A

12.2 Persistence and Degradability:

This product is biodegradable

12.3 Bioaccumulative Potential:

Not expected to be bio-accumulative in aquatic organisms

12.4 Mobility in Soil:

No data available

12.5 Results of PBT and vPvB Assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other Adverse Effects:

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with local and federal environmental regulations

SECTION 14: TRANSPORT INFORMATION

	US DOT	EU land transport (ADR/RID/ADN)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
14.1 UN Number				
14.2 UN Proper Shipping Name	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport Hazard Class(es)				
14.4 Packing Group				
14.5 Environmental Hazards	Not applicable	Not applicable	Not applicable	Not applicable
14.6 Special Precautions for user	None	None	None	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

EU EINECS/ELINCS/NLP:	All of the components of this product are listed on the EINECS Inventory.
Canada DSL/NDSL:	Not listed
US TSCA	Not listed
Korea KECI:	Not listed
China IECSC:	All of the components of this product are listed on the IECSC.
Japan ENCS:	All of the components are listed on the Japanese Existing and New Chemical Substances Inventory.
Philippine PICCS:	Not listed
Australia AICS:	All of the components of this product are listed on the AICS

Germany: Water Class Hazard (Wassergefährdungsklasse): WGK 1

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: OTHER INFORMATION

16.1 Indication of Changes

Version 1 created on 02/04/2016

Version 2 created on 06/10/2016

Version 3 created on 10/31/2017

Version 4 created on 8/27/2018: Section 3 – addition of REACH registration number

Version 5 created on 5/22/2019: Section 16.4 – updated Legal Disclaimer

Version 6 created on 10/23/2020 : Section 3 – updated EINECS Number

16.2 List of Relevant H and P codes (number and full text):

P402 + P404 Store in a dry place. Store in a closed container.

16.3 Other information:

HMIS Code: Health: 0, Flammability: 1, Reactivity: 0

16.4 Legal Disclaimer

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