

## PHENONIP

Page 1

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
	<b>Information of the substance/preparation:</b> BU Industrial & Consumer Specialties Product Stewardship, +1-704-331-7710
	<b>Emergency tel. number:</b> +1 800-424-9300 CHEMTREC

<b>Trade name:</b>	<b>PHENONIP</b>
<b>Material number:</b>	171090
<b>Synonyms:</b>	Product Has No Synonyms
<b>Primary product use:</b>	Personal Care Preservatives
<b>Chemical family:</b>	mixture of biocidal substances

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute toxicity (Oral) : Category 4

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.**Prevention:**P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

**Disposal:**

## PHENONIP

Page 2

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
2-Phenoxyethanol	122-99-6	70 - 90
Butyl 4-hydroxybenzoate	94-26-8	1 - 5
Isobutyl 4-hydroxybenzoate	4247-02-3	1 - 5

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : If symptoms persist, call a physician.
- If inhaled : Move the victim to fresh air.  
Give oxygen or artificial respiration if needed.  
Get immediate medical advice/ attention.  
Never give anything by mouth to an unconscious person.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately if irritation develops and persists.
- If swallowed : If conscious, give the patient 1-2 glasses of water (8-16 oz.) and call a doctor. Never give anything by mouth to an unconscious person. Induce vomiting only at the instructions of a doctor or nurse.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).  
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

## PHENONIP

Page 3

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

- Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
  
Carbon dioxide (CO<sub>2</sub>)  
  
Emits toxic and corrosive fumes under fire conditions.
- Further information : Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.
- Special protective equipment for firefighters : Self-contained breathing apparatus  
Full protective suit

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective clothing.  
Ensure adequate ventilation.  
Avoid contact with skin and eyes.  
Wear proper protective equipment. Contain spill. Spills should be collected as a liquid or absorbed on suitable absorbant and placed in proper containers for disposal. Do not discharge into storm drains or the aquatic environment.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Keep away sources of ignition.  
Keep away from heat.
- Advice on safe handling : Store in a closed container.  
Avoid contact with skin and eyes.  
Do not breathe vapours.  
Store above 32 F and below 104 F.

## PHENONIP

Page 4

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

- Conditions for safe storage : Keep container tightly closed in a cool, well-ventilated place.  
Protect from moisture.  
Keep only in the original container.
- Further information on storage conditions : Store in original container.  
Keep container closed.
- Materials to avoid : Keep away from oxidizing agents.
- Storage period : 36 Months

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

- Engineering measures** : A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).

**Personal protective equipment**

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection  
Remarks : Butyl Rubber, PVC or Neoprene
- Eye protection : Safety glasses with side-shields
- Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.
- Protective measures : Avoid contact with skin and eyes.  
Do not inhale vapours
- Hygiene measures : Use only in well-ventilated areas.  
Remove/ Take off immediately all contaminated clothing.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : Liquid

## PHENONIP

Page 5

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

Colour	:	yellow
Odour	:	weak
Odour Threshold	:	not tested.
pH	:	substance/mixture is non-soluble (in water)
Decomposition temperature	:	> 212 °F / > 100 °C
Boiling point	:	not determined
Flash point	:	248 °F / 120 °C
		Data relate to solvent
Evaporation rate	:	not tested.
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	Not applicable
Burning number	:	Not applicable
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	not tested.
Relative vapour density	:	not tested.
Density	:	approx. 1.12 g/cm <sup>3</sup> (68 °F / 20 °C)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	slightly soluble (68 °F / 20 °C)
Solubility in other solvents	:	not tested. Solvent: fat
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not available

## PHENONIP

Page 6

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

Decomposition temperature	:	531 °F / 277 °C Heating rate: 3 K/min No decomposition if used as directed.
Viscosity		
Viscosity, dynamic	:	not tested.
Viscosity, kinematic	:	not tested.
Explosive properties	:	Not explosive
Oxidizing properties	:	not oxidizing
Minimum ignition energy	:	Not applicable
Particle size	:	Not applicable

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	Reactions with oxidising agents. Stable
Conditions to avoid	:	Keep away from oxidizing agents. Keep away from strong bases. Keep away from strong acids.
Incompatible materials	:	not known
Hazardous decomposition products	:	When used and handled as intended, none.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**Ingestion  
Inhalation**Acute toxicity****Product:**

Acute oral toxicity	:	LD50 (Rat): 1,736 mg/kg Method: internal test
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg

## PHENONIP

Page 7

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

**Components:****2-Phenoxyethanol:**

- Acute oral toxicity : LD50 (Rat, male and female): 1,840 - 4,070 mg/kg  
Method: OECD Test Guideline 401  
GLP: no
- Acute inhalation toxicity : LC50 (Rat, male and female): > 1000 mg/m<sup>3</sup>  
Exposure time: 14 d  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 412  
GLP: yes
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,214 mg/kg  
Method: Other  
GLP: no  
Assessment: The substance or mixture has no acute dermal toxicity

**Butyl 4-hydroxybenzoate:**

- Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : Remarks: no data available
- Acute dermal toxicity : Remarks: no data available

**Isobutyl 4-hydroxybenzoate:**

- Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : Remarks: no data available
- Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation****Product:**

Method: OECD Test Guideline 404  
Result: No skin irritation

**Components:****2-Phenoxyethanol:**

Species: Rabbit

## PHENONIP

Page 8

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: no

**Butyl 4-hydroxybenzoate:**

Species: reconstructed human epidermis (RhE)  
Exposure time: 15 min  
Method: OECD Test Guideline 439  
Result: Irritating to skin.  
GLP: yes

**Isobutyl 4-hydroxybenzoate:**

Species: In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX  
Exposure time: 1 h  
Method: OECD Test Guideline 435  
Result: No skin irritation  
GLP: yes

Species: EPISKIN Human Skin Model Test  
Exposure time: 15 min  
Method: OECD Test Guideline 439  
Result: Irritating to skin.  
GLP: yes

**Serious eye damage/eye irritation****Product:**

Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

**Components:****2-Phenoxyethanol:**

Species: Rabbit  
Result: Irritating to eyes.  
Exposure time: 15 d  
Method: OECD Test Guideline 405  
GLP: no

**Butyl 4-hydroxybenzoate:**

Species: Bovine cornea  
Result: Risk of serious damage to eyes.  
Exposure time: 4 h  
Method: OECD Test Guideline 437  
GLP: yes

**Isobutyl 4-hydroxybenzoate:**

Species: Bovine cornea



## PHENONIP

Page 9

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

Result: Risk of serious damage to eyes.  
Exposure time: 4 h  
Method: OECD Test Guideline 437  
GLP: yes

**Respiratory or skin sensitisation****Product:**

Remarks: no data available

**Components:****2-Phenoxyethanol:**

Test Type: Maximisation Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Not a skin sensitizer.  
GLP: yes

Assessment: Harmful if swallowed.

**Butyl 4-hydroxybenzoate:**

Test Type: Local lymph node assay (LLNA)  
Exposure routes: Dermal  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: Not a skin sensitizer.  
GLP: yes

Assessment: Causes skin irritation., Causes serious eye damage.

**Isobutyl 4-hydroxybenzoate:**

Test Type: Local lymph node assay (LLNA)  
Exposure routes: Dermal  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: Not a skin sensitizer.  
GLP: yes

**Germ cell mutagenicity****Product:**

Germ cell mutagenicity - Assessment : No information available.

**Components:****2-Phenoxyethanol:**

Genotoxicity in vitro : Test Type: Ames test

## PHENONIP

Page 10

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

Test system: Salmonella typhimurium  
 Concentration: 20 - 5000 µg/plate  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative  
 GLP: yes

Test Type: Chromosome aberration test in vitro  
 Test system: Chinese hamster lung cells  
 Concentration: 43,8 - 1400 µg/ml  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 473  
 Result: negative  
 GLP: yes

Test Type: HGPRT assay  
 Test system: Chinese hamster lung cells  
 Concentration: 43,8 - 1400 µg/ml  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative  
 GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
 Species: Mouse (male)  
 Strain: NMRI  
 Cell type: Bone marrow  
 Application Route: Intraperitoneal injection  
 Exposure time: 24 - 48 h  
 Dose: 1x 125-250-500 mg/kg  
 Method: OECD Test Guideline 474  
 Result: negative  
 GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

**Butyl 4-hydroxybenzoate:**

Genotoxicity in vitro : Test Type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative  
 GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**Isobutyl 4-hydroxybenzoate:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
 Test system: Chinese hamster fibroblasts  
 Method: Other

## PHENONIP

Page 11

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

Result: negative  
GLP: noTest Type: Ames test  
Test system: Salmonella typhimurium  
Method: Other  
Result: negative  
GLP: no

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**Carcinogenicity****Product:**

Carcinogenicity - Assessment : No information available.

**Components:****2-Phenoxyethanol:**

Carcinogenicity - Assessment : No information available.

**Butyl 4-hydroxybenzoate:**

Carcinogenicity - Assessment : No information available.

**Isobutyl 4-hydroxybenzoate:**

Carcinogenicity - Assessment : No information available.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Product:**Reproductive toxicity - Assessment : No information available.  
No information available.

## PHENONIP

Page 12

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

**Components:****2-Phenoxyethanol:**

Effects on fertility : Test Type: Two-generation study  
Species: Mouse, male and female  
Strain: CD1  
Application Route: oral (feed)  
Dose: 0,25 - 1,25 - 2,5 % in diet  
General Toxicity - Parent: NOAEL: 1,875 mg/kg body weight  
General Toxicity F1: NOAEL: 375 mg/kg body weight  
General Toxicity F2: NOAEL: 375 mg/kg body weight  
Method: Other  
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**Butyl 4-hydroxybenzoate:**

Reproductive toxicity - Assessment : No information available.

**Isobutyl 4-hydroxybenzoate:**

Reproductive toxicity - Assessment : No information available.

**STOT - single exposure****Product:**

Remarks: no data available

**Components:****2-Phenoxyethanol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Butyl 4-hydroxybenzoate:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Isobutyl 4-hydroxybenzoate:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure****Product:**

Remarks: no data available

## PHENONIP

Page 13

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

**Components:****2-Phenoxyethanol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Butyl 4-hydroxybenzoate:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Isobutyl 4-hydroxybenzoate:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity****Product:**

Remarks: no data available

**Components:****2-Phenoxyethanol:**

Species: Rat, male and female  
NOAEL: 369 mg/kg  
Application Route: oral (gavage)  
Exposure time: 13 w  
Number of exposures: daily  
Dose: 1250-2500-5000-10000-20000mg/l  
Group: yes  
Method: OECD Test Guideline 408  
GLP: yes

Species: Rat, male and female  
NOAEL: 0.0482 mg/l  
LOAEL: 0.246 mg/l  
Application Route: Inhalation  
Exposure time: 14 d  
Number of exposures: 6 h/d, 5 days/w  
Dose: 40 - 200 - 1000 mg/m<sup>3</sup>  
Group: yes  
Method: OECD Test Guideline 412  
GLP: yes

Species: Rabbit, male and female  
NOAEL: 500 mg/kg  
Application Route: Skin contact  
Exposure time: 13 w  
Number of exposures: 6 h/d, 5 days/w  
Dose: 50 - 150 - 500 mg/kg  
Group: yes  
Method: OECD Test Guideline 411

## PHENONIP

Page 14

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

GLP: yes

Repeated dose toxicity - Assessment : Harmful if swallowed.

**Butyl 4-hydroxybenzoate:**

Remarks: no data available

Repeated dose toxicity - Assessment : Causes skin irritation., Causes serious eye damage.

**Isobutyl 4-hydroxybenzoate:**

Remarks: no data available

**Aspiration toxicity****Product:**

no data available

**Components:****2-Phenoxyethanol:**

No aspiration toxicity classification

**Butyl 4-hydroxybenzoate:**

no data available

**Isobutyl 4-hydroxybenzoate:**

No aspiration toxicity classification

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

**Further information****Product:**

Remarks: Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : LC50 (Fish): > 100 mg/l



## PHENONIP

Page 16

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

- Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 0.5 h  
Test Type: aquatic  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to soil dwelling organisms : Test Type: artificial soil  
LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Method: OECD Test Guideline 207  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Plant toxicity : EC50: 107 mg/kg  
Exposure time: 19 d  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes
- EC50: 37 mg/kg  
Exposure time: 19 d  
Species: Brassica napus  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes
- EC50: 235 mg/kg  
Exposure time: 19 d  
Species: Brassica napus  
Analytical monitoring: no  
Method: OECD Guide-line 208  
GLP: yes
- Sediment toxicity : Remarks: Not applicable
- Toxicity to terrestrial organisms : Remarks: Not applicable
- Butyl 4-hydroxybenzoate:**
- Toxicity to fish : Remarks: no data available
- Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 9.2 mg/l



## PHENONIP

Page 17

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

aquatic invertebrates	End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: no
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 9.5 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: no  NOEC (Pseudokirchneriella subcapitata (green algae)): 0.8 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: no
Toxicity to fish (Chronic toxicity)	: Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: Remarks: no data available
<b>Ecotoxicology Assessment</b>	
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.
<b>Isobutyl 4-hydroxybenzoate:</b>	
Toxicity to fish	: Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 5.31 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: ErC50 (Desmodesmus subspicatus (green algae)): 8.46 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201

## PHENONIP

Page 18

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

GLP: yes

ErC10 (Desmodesmus subspicatus (green algae)): 4.07 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

**Persistence and degradability****Product:**

Biodegradability : Biodegradation: 90 - 100 %  
Method: OECD Test Guideline 301A  
Remarks: The data refer to the solvent

**Components:****2-Phenoxyethanol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 30 mg/l  
Biochemical Oxygen Demand (BOD)  
Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

aerobic  
Inoculum: activated sludge  
Concentration: 20 mg DOC/l  
Dissolved organic carbon (DOC)  
Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 15 d  
Method: OECD Test Guideline 301A  
GLP: yes

Physico-chemical removability : Remarks: Biodegradable

Stability in water : Test Type: abiotic  
Degradation half life (DT50): > 365 d (50 °C) pH: 4 - 9  
Method: OECD Test Guideline 111

## PHENONIP

Page 19

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

GLP: yes

Photodegradation : Test Type: air  
Light source: Sunlight  
Sensitiser: OH  
Concentration: 500000 molecules/cm<sup>3</sup>  
Rate constant: 3,26727E-11 cm<sup>3</sup>/(molecule\*sec)  
Degradation (indirect photolysis): 50 % Degradation half life:  
11.8 h  
Method: calculated  
GLP: no

Test Type: water  
Light source: Other  
Light spectrum: 298 - 400 nm  
Degradation (direct photolysis): 50 % Degradation half life:  
5,120 d  
GLP: No information available.

**Butyl 4-hydroxybenzoate:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 15 mg/l  
Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 64 %  
Exposure time: 18 d  
Method: OECD Test Guideline 301B  
GLP: yes

**Isobutyl 4-hydroxybenzoate:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 15 mg/l  
Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 64 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes  
Remarks: By analogy with a product of similar composition

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: not available

**Components:****2-Phenoxyethanol:**

Bioaccumulation : Species: Other

## PHENONIP

Page 20

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

Bioconcentration factor (BCF): 0.35  
Method: calculated  
GLP: no

Partition coefficient: n-octanol/water : log Pow: 1.2 (73 °F / 23 °C)  
pH: 7  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: yes

**Butyl 4-hydroxybenzoate:**

Partition coefficient: n-octanol/water : log Pow: 3.57  
Method: estimated  
GLP: no  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

**Isobutyl 4-hydroxybenzoate:**

Partition coefficient: n-octanol/water : log Pow: 3.43 (73 °F / 23 °C)  
pH: 7.5  
Method: OECD Test Guideline 107  
GLP: no

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: no data available

**Components:****2-Phenoxyethanol:**

Distribution among environmental compartments : adsorption  
Medium: water - soil  
log Koc: 1.6  
Method: OECD Test Guideline 121

**Other adverse effects****Product:**

Environmental fate and pathways : Remarks: no data available

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.  
Biologically degradable, when diluted may be degraded in biological purification plants

**Components:****2-Phenoxyethanol:**

## PHENONIP

Page 21

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

- Environmental fate and pathways : no data available
- Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
- Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

**Butyl 4-hydroxybenzoate:**

- Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

**Isobutyl 4-hydroxybenzoate:**

- Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- RCRA - Resource Conservation and Recovery Act  
Waste Code : NONE
- RCRA - Resource Conservation and Recovery Act : This product, if discarded as sold, is not a Federal RCRA hazardous waste.
- Waste from residues : NONE
- Waste from residues : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
- Properly containerize and label waste material.  
Dispose of any waste residues according to prescribed federal, state and local guidelines, e.g. appropriately permitted chemical waste incinerator.
- Contaminated packaging : Regulations concerning reuse or disposal of used packaging materials must be observed.  
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

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**SECTION 14. TRANSPORT INFORMATION**

- DOT : not restricted
- IATA : not restricted
- IMDG : not restricted

## PHENONIP

Page 22

Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Glycol ether	Not Assigned	70 - 90 %
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**Clean Water Act**

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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

**TSCA** : This product is not listed on the Toxic Substances Control Act (TSCA) Inventory. It can not be used for any commercial purposes except as a bonafide cosmetic or cosmetic adjuvant, additive, or ingredient; or for use in research and development under the supervision of a technically qualified individual to understand its potential hazards.

## PHENONIP

Page 23

Substance key: 000000056051

Revision Date: 12/04/2020

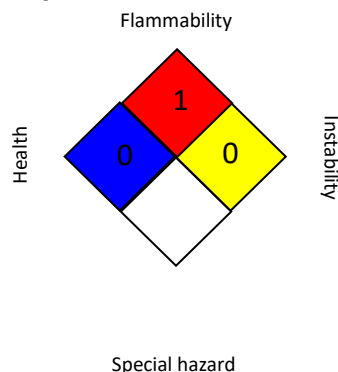
Version : 8 - 4 / USA

Date of printing :04/15/2021

## SECTION 16. OTHER INFORMATION

## Further information

## NFPA 704:



## Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

## PHENONIP

Page 24

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Substance key: 000000056051

Revision Date: 12/04/2020

Version : 8 - 4 / USA

Date of printing :04/15/2021

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Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe national and local legal requirements

Warning

This product is not listed on the TSCA Inventory. It is to be used as a cosmetic ingredient only. Any other use will subject the user to penalties under the Toxic Substances Control Act and the regulations issued thereunder.

For additional information, contact Product Stewardship.

Revision Date : 12/04/2020

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