

Prepared in accordance with Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, February 2016)

Date of issue: 23.03.2021

Version No: 1.01

Page: 1/13  
Revision date: 06.04.2016 v1.0.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

Trade name: **CANNA CLASSIC VEGA A**  
Synonym(s): -

**Relevant identified uses of the substance or mixture and uses advised against:** Liquid NK fertilizer.  
**Product category:** Product Category 12 (PC12 Fertilizers), Sector of Use 21 (SU21 Consumer uses).

### Details of the supplier of the safety data sheet

#### Manufacturer/supplier:

#### For Australia:

CANNA Australasia Pty Ltd  
PO Box 1816,  
Subiaco WA 6904 Australia  
Phone: 1800 422 662 / +61 (0)8 9217 4400

#### For New Zealand:

CANNA Australasia Pty Ltd  
PO Box 158,  
Auckland 1140, New Zealand  
Phone: 0800 422 662 / +61 (0)8 9217 4400

#### Further information obtainable from:

Contact person: N. Linton  
Tel.: +31 (0) 162-68 00 12  
Email: msds@canna.com  
Working hours  
(business days): 09:00-17:00.

#### Emergency telephone number:

Australia : Poisons Information Centre 13 11 26  
New Zealand: National Poisons Centre 0800 764 766

## SECTION 2: Hazards identification

### Classification of the substance or mixture

Classification in accordance with GHS, 3<sup>rd</sup> Revised Edition

Eye Irrit. 2 H319  
Acute Tox. 4 H302

#### Label elements and precautionary statement

#### Hazard pictograms:



Signal word: Warning.

#### Hazard statements:

**Trade name:** CANNA CLASSIC VEGA A

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

**Precautions:**

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.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

**Hazard-determining components for**

**labelling:** Calcium nitrate, ammonium nitrate.

**Other hazards**

Void.

**Results of PBT and vPvB assessment**

**PBT:** No.

**vPvB:** No.

## SECTION 3: Composition/information on ingredients

**Chemical characterization:** Mixture.

**Description:** Preparation based on substances including water, calcium nitrate, potassium nitrate and ammonium nitrate.

**Hazardous ingredients**

**Calcium nitrate**

CAS#: 10124-37-5

EC#: 233-332-1

Index#: -

REACH reg.#: -

Content (W/W): 10 - 30 %

Danger:

1999/45/EC: O; R8 - Xn; R22.

1272/2008/EC: Ox. Sol. 2; H272 - Acute Tox. 4; H302 - Eye Irrit. 2; H319.

**Potassium nitrate**

CAS#: 7757-79-1

EC#: 231-818-8

Index#: -

REACH reg.#: -

Content (W/W): 1 - 7 %

Danger:

1999/45/EC: O; R8.

1272/2008/EC: Ox. Sol. 2; H272.

**Ammonium nitrate**

CAS#: 6484-52-2

EC#: 229-347-8

Index#: -

REACH reg.#: -

Content (W/W): 1 - 5 %

Danger:

1999/45/EC: O; R8 - Xi; R36.

1272/2008/EC: Ox. Sol. 2; H272 - Eye Irrit. 2; H319.

**Trade name:** CANNA CLASSIC VEGA A

**Full text of H- phrase(s):** see section 16.

## SECTION 4: First aid measures

### Description of first aid measures

#### General information:

Get medical attention if symptoms persist.

#### Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Skin contact:

Remove contaminated clothing. Wash with water and soap.

#### Eye contact:

Remove contact lenses, if present, and immediately rinse eyes while holding eyelids open for a sufficient period of time (at least 15 minutes) with lukewarm water. Help the victim with the rinsing process.

#### Ingestion:

Rinse mouth immediately with water (if conscious), and then drink plenty of water. Do not induce vomiting. If the person feels unwell consult a physician or take victim to hospital (show packaging, label or SDS to physician). Place unconscious person on the side in the recovery position. Loosen tight clothing such as a shirt collar, tie, belt or waistband. Keep at rest.

### Most important symptoms and effects, both acute and delayed

#### Inhalation:

Exposure to vapour concentrations of component dusts higher than the MAC value can be harmful to the health. Potential health effects include: sore throat, cough, shortness of breath, dizziness. Effects may be delayed.

#### Skin contact:

Redness and pain.

#### Eye contact:

May cause irreversible damage to the eyes. Redness. Pain.

#### Ingestion:

Abdominal cramp, nausea, blue skin, feeling of weakness. Contains calcium nitrate which, after ingestion, may cause blood damage (methemoglobinemia).

### Indication of any immediate medical attention and special treatment needed

Symptomatic treatment and supportive therapy as prescribed.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media:

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water spray.

Foam.

Sand.

Adapt extinguishing measures to suit the environment.

#### Unsuitable extinguishing media:

Powerful water jet.

### Special hazards arising from the substance or mixture

During heating or in case of fire, poisonous gases may be produced.

May be released in event of fire:

Nitrogen oxides (NO<sub>x</sub>).

### Advice for firefighters

#### Special protective clothing:

Wear self-contained breathing apparatus.

**Trade name:** CANNA CLASSIC VEGA A

### Other information

No specific requirements.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation.

Wear personal protective equipment.

### Environmental precautions

Do not allow large quantities of product to reach sewage/surface water/groundwater in concentrated form.

Notify competent authorities in case of release of large quantities into the environment.

### Methods and material for containment and cleaning up

Soak up immediately with absorbent material (sand, dry earth).

Recycle, if possible.

Collect in suitable containers for disposal.

Then flush away residue with plenty of water.

### Reference to other sections

Information regarding safe handling – see section 7.

Information regarding personal protective equipment – see section 8.

Information regarding disposal – see section 13.

## SECTION 7: Handling and storage

### Handling

#### Precautions for safe handling:

Open and handle package with care.

Wear suitable protective clothing.

Ventilation is recommended.

Do not smoke, eat or drink during use.

#### Information about fire - and explosion protection:

No specific requirements.

### Conditions for safe storage, including any incompatibilities

#### Storage:

Close containers after each use.

#### Requirements to be met by storerooms and receptacles:

Preferably keep in the original packaging.

Keep in a dark place.

Store in a frost-free environment.

Protect against heat and direct sunlight.

Suitable packaging material: Polyethylene.

Suitable material for tanks and pipelines: Stainless steel, PVC.

#### Information about storage in one common storage facility:

Install partitions in the drip tray to prevent acidic and alkaline fertilisers from coming into contact with one another.

#### Further information about storage conditions:

Recommended storage temperature 10 - 30 °C.

### Specific end use(s)

No further relevant information available.

Trade name: **CANNA CLASSIC VEGA A**

### SECTION 8: Exposure controls/personal protection

#### Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

Product information: 7757-79-1	Potassium nitrate
TWA 8 h	mg/m <sup>3</sup> (ppm) 5 (-) inhalable dust

##### Hazardous ingredients with DN(M)EL:

Product information: 10124-37-5 Calcium nitrate	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m <sup>3</sup>	Workers Local
DN(M)EL	Long-term dermal	13.9	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	24.5	mg/m <sup>3</sup>	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m <sup>3</sup>	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m <sup>3</sup>	General population Local
DN(M)EL	Long-term dermal	8.33	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	6.3	mg/m <sup>3</sup>	General population Systemic
DN(M)EL	Long-term oral	8.33	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Long-term inhalation	-	mg/m <sup>3</sup>	General population Local

##### Hazardous ingredients with DN(M)EL:

Product information: 7757-79-1 Potassium nitrate	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m <sup>3</sup>	Workers Local
DN(M)EL	Long-term dermal	20.8	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	36.7	mg/m <sup>3</sup>	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m <sup>3</sup>	Workers Local

**Trade name: CANNA CLASSIC VEGA A**

DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m <sup>3</sup>	General population Local
DN(M)EL	Long-term dermal	12.5	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	10.9	mg/m <sup>3</sup>	General population Systemic
DN(M)EL	Long-term oral	12.5	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Long-term inhalation	-	mg/m <sup>3</sup>	General population Local

**Hazardous ingredients with DN(M)EL:**

Product information: 6484-52-2 Ammonium nitrate	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m <sup>3</sup>	Workers Local
DN(M)EL	Long-term dermal	21.3	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	37.6	mg/m <sup>3</sup>	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m <sup>3</sup>	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Short-term inhalation	-	mg/m <sup>3</sup>	General population Local
DN(M)EL	Long-term dermal	12.8	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term inhalation	11.1	mg/m <sup>3</sup>	General population Systemic
DN(M)EL	Long-term oral	12.8	mg/kg bw/day	General population Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	General population Local
DN(M)EL	Long-term inhalation	-	mg/m <sup>3</sup>	General population Local

**Hazardous ingredients with PNEC:**

Product information: 10124-37-5 Calcium nitrate	Value	Unit	Compartment

**Trade name: CANNA CLASSIC VEGA A**

PNEC	0.45	mg/l	Fresh water
PNEC	0.045	mg/l	Marine water
PNEC	4.5	mg/l	Intermittent releases
PNEC	18	mg/l	STP (sewage treatment plant)
PNEC	-	mg/kg dwt	Sediment fresh water
PNEC	-	mg/kg dwt	Sediment marine water
PNEC	-	mg/kg wwt	Soil
PNEC	No bio-accumulation potential	mg/l	Oral (foodstuffs)

#### Hazardous ingredients with PNEC:

Product information: 7757-79-1 Potassium nitrate	Value	Unit	Compartment
PNEC	0.45	mg/l	Fresh water
PNEC	0.045	mg/l	Marine water
PNEC	4.5	mg/l	Intermittent releases
PNEC	18	mg/l	STP (sewage treatment plant)
PNEC	-	mg/kg dwt	Sediment fresh water
PNEC	-	mg/kg dwt	Sediment marine water
PNEC	-	mg/kg wwt	Soil
PNEC	No bio-accumulation potential	mg/l	Oral

#### Hazardous ingredients with PNEC:

Product information: 6484-52-2 Ammonium nitrate	Value	Unit	Compartment
PNEC	0.45	mg/l	Fresh water
PNEC	0.045	mg/l	Marine water
PNEC	4.5	mg/l	Intermittent releases
PNEC	18	mg/l	STP (sewage treatment plant)
PNEC	-	mg/kg dwt	Sediment fresh water
PNEC	-	mg/kg dwt	Sediment marine water
PNEC	-	mg/kg wwt	Soil
PNEC	No bio-accumulation potential	mg/l	Oral (foodstuffs)

### Exposure controls

#### Personal protective equipment:

Remove immediately all contaminated clothing.

Store protective clothing separately.

Avoid contact with the eyes.

Wash hands thoroughly after handling this product.

#### General protective and hygienic measures:

Keep away from foodstuffs and beverages.

Do not eat, drink or smoke when using this product.

The usual precautionary measures are to be adhered to when handling chemicals.

#### Respiratory protection:

No specific requirements, normal room ventilation will suffice.

#### Hand protection:



Safety gloves.

The glove material (EN374) has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Glove material

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Trade name:** CANNA CLASSIC VEGA A

### Penetration time of glove material

The exact break through time can be obtained from the manufacturer of the protective gloves and has to be observed.

### Eye protection:

Tight fitting safety goggles. Eye shower.



### Body protection:

Wear suitable protective work clothing (in case of splash risk).

### Measuring procedures:

In order to establish compliance with an exposure limit and to establish that exposure is properly controlled, it may be necessary to determine the concentration of the substances in the inhalation zone or in the general workspace.

### Environmental exposure controls:

Leakage of the material and concentrated solution must be stopped. Leakage of large quantities into sewage, surface waters and groundwater must be avoided because the material contains calcium nitrate which may lead to eutrophication.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### General information

#### Appearance

<b>Form:</b>	Liquid.
<b>Colour:</b>	Light yellow.
<b>Odour:</b>	Sour.
<b>Odour threshold:</b>	Not determined.

**pH-value** 3.0-3.5

#### Change in condition

<b>Melting point/melting range:</b>	Not determined.
<b>Boiling point/boiling range:</b>	Not determined.

**Flash Point:** > 93 °C.

**Flammability (solid, gas):** Not applicable.

**Auto-ignition temperature:** Not determined.

**Explosion hazard:** Not determined.

#### Explosive limits

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Vapour pressure:** Not determined.

**Relative density:** 1.147 (water = 1).

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

#### Solubility in/miscibility with

**water:** Fully.

#### Partition coefficient

**n-octanol/water:** Not determined.

#### Viscosity

**Dynamic:** Not determined.

**Kinematic:** Not determined.

#### Other information

No further relevant information available.

**Trade name:** CANNA CLASSIC VEGA A

## SECTION 10: Stability and reactivity

### Reactivity

#### Chemical stability:

The product is stable if stored and handled as prescribed.

#### Thermal decomposition/Conditions to be avoided:

No decomposition if used as prescribed. Avoid storing at high temperatures (> 30 °C) to prevent degradation of the material or pressure build-up. Avoid low temperatures (< 10 °C) to prevent crystallization from occurring.

Material is susceptible to frost.

### Possibility of hazardous reactions

Contact with strong reducing agents, strong acids and bases.

### Conditions to avoid

Avoid heat, sparks, open flames, and other sources of ignition. Prevent evaporation in a non-ventilated environment. Protect against heat and direct sunlight. Protect against frost.

### Incompatible materials

Reducing agents, strong acids and bases, metal powders, combustible materials, chromates, zinc, copper and copper alloys, chlorates.

### Hazardous decomposition products

No hazardous decomposition products are formed if stored under normal conditions. In case of heating or fire, irritating or toxic vapours such as nitrogen oxides may be released.

## SECTION 11: Toxicological information

### Toxicology information

#### Acute toxicity from the components:

##### LD/LC50 values relevant for classification:

Product information: 10124-37-5		Calcium nitrate
Oral	LD50	1000 mg/kg (rat) (OECD 423)
Inhalation	LC50	-
Dermal	LD50	> 2000 mg/kg (rat) (OECD 402)
Product information: 7757-79-1		Potassium nitrate
Oral	LD50	> 2000 mg/kg (rat) (OECD 425) 3750 mg/kg (rat) 1901 mg/kg (rabbit)
Inhalation	LC50 (4 h)	0.527 mg/l (rat) (OECD 403, inhalable dust)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Product information: 6484-52-2		Ammonium nitrate
Oral	LD50	2950 mg/kg (rat) (OECD 401)
Inhalation	LC50 (4h)	> 88.8 mg/l (rat) (OECD 403)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)

**The following health risk assessment is based on an assessment of the various ingredients in the product.**

#### Primary irritant effect:

on the skin:

-

to the eye:

Irritant / corrosive effect.

#### Germ cell mutagenicity:

**Trade name:** CANNA CLASSIC VEGA A

Not classified.

**Reproductive and developmental toxicity:**

Not classified.

**Sensitisation:**

No sensitising effects known.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

Not classified.

**Other information:**

No further relevant information available.

## SECTION 12: Ecological information

### Toxicology information

**Ecotoxicity from the components:**

<b>Aquatic toxicity:</b>		
Product information: 10124-37-5	Calcium nitrate	
Fish	LC50 (96 h)	> 98.9 mg/l (OECD 203)
Water flea	EC50	490 mg/l (daphnia magna)
Algae	EC50	-
Bacteria	EC50	-
Product information: 7757-79-1	Potassium nitrate	
Fish	LC50 (96 h)	> 98.9 mg/l (OECD 203) 180 - 200 mg/l (poecilia reticulata)
Water flea	EC50 (48 h)	490 mg/l (daphnia magna)
Algae	EC50	-
Bacteria	EC50	-
Product information: 6484-52-2	Ammonium nitrate	
Fish	LC50 (48 h)	447 mg/l (95% CI 391-513)
Water flea	EC50	-
Algae	EC50	-
Bacteria	EC50	-

The following ecological risk assessment is based on an assessment of the various ingredients in the product.

### Persistence and degradability

Partially inorganic and presumed to be partially biodegradable over the long-term.

### Behaviour in environmental compartments

**Bioaccumulative potential:**

Bioaccumulation in organisms is not expected.

**Mobility in soil:**

No further relevant information available.

### Further ecological information

**General information:**

Water hazard class 1 (German regulation) (Self-assessment): slightly hazardous to water. Do not discharge undiluted product into groundwater, surface water or sewage system.

### Results of PBT and vPvB assessment

The mixture does not meet all of the assessment criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

### Other adverse effects

Contains substances that contribute to eutrophication: Nitrates.

Trade name: **CANNA CLASSIC VEGA A**

## SECTION 13: Disposal considerations

### Waste treatment methods

**Recommendation:**

May be brought to a supervised incineration plant in compliance with local regulations.

**EC Regulation for Disposal of Waste (EWC):**

06 10 02\* WASTES FROM INORGANIC CHEMICAL PROCESSES, wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture; waste containing dangerous substances.

### Uncleaned packaging

**Recommendation:**

Disposal must be made according to official regulations. Empty the packaging with care. Do not contaminate soil, water or environment with the waste container. Comply with local regulations with regard to the recovery or disposal of waste.

## SECTION 14: Transport information

### Land transport ADR/RID (cross-border)

**ADR/GGVSEB class:** Not a dangerous good according to the transport regulations.  
**Hazard identification number:** -  
**UN number:** -  
**Packing group:** -  
**Label:** -  
**Special marking:** -  
**UN proper shipping name:** -  
**Tunnel restriction code:** -

### Inland shipping ADN/ADR

**ADN/R-class:** -  
**UN number:** -  
**Subsidiary risk:** -  
**Environmental hazards:** -  
**CMR properties:** -  
**Buoyancy:** -

### Maritime transport IMDG

**IMDG-class:** -  
**UN number:** -  
**Label:** -  
**Packing group:** -  
**EMS number:** -  
**Marine pollutant:** -  
**Proper shipping name:** -

### Air transport ICAO-TI and IATA-DGR

**ICAO/IATA-class:** -  
**UN number:** -  
**Label:** -  
**Packing group:** -  
**Proper shipping name:** -

### Environmental hazards

No.

### Special precautions for user

None.

**Trade name:** CANNA CLASSIC VEGA A

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No further relevant information available.

## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations:

*Agricultural and Veterinary Chemicals Act 1988* (Commonwealth)- Australia  
Fertilisers (Subsidiary Hazard) Group Standard 2006. Approval Number HSR002571 – New Zealand  
New Zealand Inventory of Chemicals (NZIoC)

#### EU regulations and directives which affect this mixture (not yet directly or indirectly mentioned):

Directive 89/686/EEC Personal protective equipment.  
Directive 98/24/EC Risks related to chemical agents at work.  
Regulation 2003/2003/EC Concerning fertilisers.

#### Chemical safety assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

This information is based on the current state of our knowledge. It should not be construed as any guarantee of product characteristics, nor does it establish a legally valid contractual relationship.

### List of relevant H- phrases from sections 2 and 3

H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

### Document history

**Printed on:** 23 March 2021.  
**Previous edition:** 06.04.2016 v1.0.  
**Version:** 1.01.

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
P: Marine pollutant  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
EC50: Half maximal effective concentration  
HSNO: Hazardous Substances and New Organisms Act 1996  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
OEL: Occupational Exposure Limit  
NOEC: No Observed Effect Concentration  
NZIoC: New Zealand Inventory of Chemicals  
vPvB: Very Persistent and Very Bioaccumulative  
PBT: Persistent, Bioaccumulative and Toxic substance  
EWC: European Waste Catalogue  
TWA: Time-Weighted Average

**Trade name: CANNA CLASSIC VEGA A**

DNEL: Derived No-Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No-Effect Concentration