



# Safety Data Sheet

Preparation Date 06-Feb-2020

Revision date 06-Feb-2020

Revision Number: 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Identification of the product

**Product Description** Vinde

### Other means of identification

**Product code** 12SPA-0002

### Recommended use of the chemical and restrictions on use

**Recommended use** Soil/Plant Ammendment.

**Uses advised against** Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

#### **Supplier Address**

UPL NA Inc.  
630 Freedom Business Center  
Suite 402  
King of Prussia, PA 19406

### Emergency telephone number

**Company Phone Number** 1-800-438-6071

**Emergency telephone number** Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

## 2. Hazards Identification

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

#### **EMERGENCY OVERVIEW**

The product contains no substances which at their given concentration, are considered to be hazardous to health under the OSHA 2012 HazCom

**Appearance** clear

**Physical state** Liquid

**Odor** Rotten egg-like

### Hazards Not Otherwise Classified (HNOC)

#### **OTHER INFORMATION**

## 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
2-hydroxy-1,2,3-tricarboxy-propane acid	5949-29-1	3

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret. There is no CAS number associated with the extract ingredient in this formulation.

#### 4. First aid measures

##### FIRST AID MEASURES

<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Remove contaminated clothing and shoes.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

##### Most Important Symptoms and Effects, Both Acute and Delayed

**Most Important Symptoms and Effects** no data available.

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

**Notes to physician** No information available. Treat symptomatically.

#### 5. Fire-fighting measures

##### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** no data available.

##### Specific hazards arising from the chemical

No information available.

##### Explosion data

##### Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

##### Environmental Precautions

**Environmental precautions** Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

#### **Methods and material for containment and cleaning up**

**Methods for Clean-Up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

### **7. Handling and Storage**

#### **Precautions for safe handling**

**Handling** Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

#### **Conditions for safe storage, including any incompatibilities**

**Storage** Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Store in a dry place and/or in closed container. Keep containers tightly closed in a cool, well-ventilated place.

**incompatible materials** Incompatible with strong acids and bases.

### **8. Exposure Controls/Personal Protection**

**Exposure guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering controls** Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

#### **Personal protective equipment**

##### **Eye/Face Protection**

Avoid contact with eyes. Goggles.

##### **Skin protection**

Long sleeved clothing. Long pants. Chemical resistant gloves. waterproof gloves. Socks and footwear.

##### **Respiratory protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

#### **General hygiene considerations**

Avoid contact with skin, eyes and clothing.

### **9. Physical and Chemical Properties**

#### **Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid		
<b>Appearance</b>	clear	<b>Odor</b>	Rotten egg-like
<b>color</b>	Green to light brown		
<b>Property</b>	<b>VALUES</b>	<b>Remarks/ • Method</b>	
<b>pH</b>	2.3	Approximately	
<b>Melting point/freezing point</b>	no data available		
<b>Boiling Point/Range</b>	No information available		
<b>Flash Point</b>	No information available		

Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability limit in air	
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
vapor pressure	No information available
Vapor Density	No information available
Specific gravity	1.13-1.17
Water solubility	No information available
Solubility in Other Solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	no data available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

**OTHER INFORMATION**

Softening point	No information available
molecular weight	No information available
VOC Content	No information available
Liquid Density	No information available

## 10. Stability and Reactivity

**Reactivity**

no data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**incompatible materials**

Incompatible with strong acids and bases.

**Hazardous decomposition products**

Carbon oxides.

## 11. Toxicological Information

**Information on Likely Routes of Exposure**

<b>Product information</b>	The information provided below is for a similar formulation: SPA formulation - Acute oral LD50 (rat) = >2000 mg/kg Acute dermal LD50 (rat) = >2000 mg/kg
<b>Inhalation</b>	May cause irritation of respiratory tract. May be harmful if inhaled.
<b>Eye contact</b>	May cause irritation.
<b>Skin contact</b>	May cause irritation.
<b>Ingestion</b>	MAY BE HARMFUL IF SWALLOWED.

**Information on Toxicological Effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No information available.
<b>Mutagenic effects</b>	no data available.
<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product.
<b>Reproductive effects</b>	Not Available.
<b>STOT - Single Exposure</b>	no data available.
<b>STOT - Repeated Exposure</b>	no data available.
<b>Aspiration hazard</b>	No information available.

**Numerical Measures of Toxicity - Product information**

<b>LD50 Oral</b>	> 2000 mg/kg (rat)
<b>LD50 Dermal</b>	> 2000 mg/kg (rat)

**12. Ecological Information****ecotoxicity**

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or arable land. Do not apply when weather conditions favor drift from treated areas.

**Persistence/Degradability**

no data available.

**Bioaccumulation/ Accumulation**

No information available.

**Other Adverse Effects**

no data available

**13. Disposal Considerations****Waste Treatment Methods**

<b>Waste Disposal Method</b>	Dispose of in accordance with local regulations. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water.
------------------------------	---

<b>Contaminated packaging</b>	Refer to product label.
-------------------------------	-------------------------

**14. Transport Information****DOT**

NOT REGULATED

**TDG**

NOT REGULATED

**IATA**

NOT REGULATED

**IMDG**

NOT REGULATED

**15. Regulatory Information****International Inventories**

<b>USINV</b>	Not present
<b>DSL/NDSL</b>	Not present
<b>EINECS/ ELINCS</b>	Not Present
<b>ENCS</b>	Not Present
<b>China</b>	Not Present
<b>KECL</b>	Not Present
<b>PICCS</b>	Not Present
<b>AICS</b>	Not Present
<b>TSCA</b>	Not Present

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**CERCLA**

Not applicable

**CERCLA****SARA Product RQ** 0**RCRA****Pesticide Information****State Regulations**

California Proposition 65

This product does not contain any Proposition 65 chemicals

**State Right-to-Know****International regulations****U.S. EPA Label information****EPA Pesticide registration number** Not applied

**16. Other Information**

**NFPA**                      **HEALTH** 1                      **flammability** 0                      **Instability** 0                      **Physical hazard** -

**Preparation Date**                      06-Feb-2020

**Revision date**                      06-Feb-2020

**Revision Summary**

Add to system

**Disclaimer**

UPL NA Inc. believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of SDS**