SECTION 1. IDENTIFICATION

Product name : Vitaflo™ - 280
Product code : 400000004577

Manufacturer or supplier's details
Company: MacDermid Agricultural Solutions, Inc
245 Freight St
Waterbury, CT
United States of America
06702
Telephone : +1 800 423 8569

Prepared by sds.request@arysta.com

Further information for the material safety data sheet :
sds.request@arysta.com

1.4 Emergency telephone

Emergency telephone: Agriphar Crop Solutions: +1 800 423 8569(24 hours) 800-424-9300
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide
Restrictions on use : Agriculture, For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Acute toxicity (Inhalation) : Category 2
Skin irritation : Category 2
Skin sensitization : Category 1
Specific target organ systemic toxicity - repeated : Category 2
SAFETY DATA SHEET

Vitaflo™ - 280

exposure (Oral)

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

GHS Label element

Hazard pictograms

Signal Word : Danger

Hazard Statements :
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

Prevention:
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P284 Wear respiratory protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

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

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
SAFETY DATA SHEET

Vitaﬂo™ - 280

Version 1.6
Revision Date: 10/26/2015
MSDS Number: 400000004577
Country: US
Language: Z8

Substance / Mixture : Mixture
Chemical nature : Carboxin - 1.45 lbs/gal
                  Thiram - 147 gm/L
                  Carboxin - 174 gm/L
                  Thiram - 147 gm/L

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>carboxin</td>
<td>5234-68-4</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>ethane-1,2-diol</td>
<td>107-21-1</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>64742-65-0</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>thiram</td>
<td>137-26-8</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>sodium 2-[methylolylamino]ethane-1-sulphonate</td>
<td>137-20-2</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

If inhaled : Move 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 POISON CENTER or doctor/physician.

In case of skin contact : Remove contaminated clothing and shoes.
Rinse immediately with plenty of water for at least 15 minutes.
Call a POISON CENTER or doctor/physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Call a POISON CENTER or doctor/physician.

If swallowed : Call a physician or poison control center immediately.
Have person sip a glass of water if able to swallow.
If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : irritant effects
Sensitization
Symptoms may be delayed.
Causes skin irritation.
May cause an allergic skin reaction.
Fatal if inhaled.
May cause damage to organs through prolonged or repeated exposure if swallowed.

Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:  Extinguishing media - large fires
Alcohol-resistant foam
(on small fires)
Carbon dioxide (CO2)
Dry chemical
Water spray

Unsuitable extinguishing media:  Water spray jet

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

Further information:  Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for fire-fighters:  Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus (EN 133)

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:  Wear suitable protective equipment.
Avoid contact with skin and eyes.

Environmental precautions:  Prevent leaks and prevent soil / water pollution caused by leaks.

Methods and materials for containment and cleaning up:  Absorb on inert material such as sand, earth, vermiculite.
Collect for disposal.
Dam up.
Large spills should be collected mechanically (remove by pumping) for disposal.
Pump excess material into suitable container (metal drums, metal tank, or such).

In accordance with local and national regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling:  Do not eat, drink or smoke when using this product.
Avoid contact with skin, eyes and clothing.
Avoid inhalation of vapor or mist.
Use with adequate ventilation.
Wash thoroughly after handling.

Conditions for safe storage:  Keep in a dry, cool place.
### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethane-1,2-diol</td>
<td>107-21-1</td>
<td>C</td>
<td>50 ppm&lt;br&gt;125 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>100 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C (Aerosol only)</td>
<td>100 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>64742-65-0</td>
<td>TWA (Mist)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
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<tr>
<td></td>
<td></td>
<td>TWA (Inhalable fraction)</td>
<td>5 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Mist)</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
</tr>
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<td></td>
<td></td>
<td>ST (Mist)</td>
<td>10 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Mist)</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>thiram</td>
<td>137-26-8</td>
<td>TWA (Inhalable fraction and vapor)</td>
<td>0.05 mg/m³</td>
<td>ACGIH</td>
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<td>TWA</td>
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<td>OSHA Z-1</td>
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<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
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<tr>
<td>Hazardous components without workplace control parameters</td>
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<td>----------------------------------------------------------------------------</td>
<td>-------------</td>
<td>--------------------------------</td>
<td>-----------------------------------------------</td>
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</tr>
<tr>
<td>carboxin</td>
<td>5234-68-4</td>
<td></td>
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<tr>
<td>sodium 2-[methyloleoylamino]ethane-1-sulphonate</td>
<td>137-20-2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Personal protective equipment

Respiratory protection: In the absence of engineering controls sufficient to maintain airborne concentrations below recommended occupational exposure limit values, appropriate respiratory protection should be utilized.

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hand protection: Impervious gloves
Eye protection : Safety glasses with side-shields
Skin and body protection : Preventive skin protection
Hygiene measures : Do not store near food, feed or fertilizers.
Do not contaminate ponds, lakes, streams, or any source of water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : light pink
- Odor : mild, sweet
- Odor Threshold : No data available
- pH : ca. 7.8
- Melting point/range : -20 °C
- Flash point : No data available
- Evaporation rate : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapor pressure : No data available
- Relative vapor density : No data available
- Relative density : 1.090 - 1.140 (25 °C)
- Density : ca. 1.117 g/cm³
- Solubility(ies)
  - Water solubility : No data available
  - Solubility in other solvents : No data available
- Partition coefficient: n-octanol/water : No data available
- Autoignition temperature : No data available
- Decomposition temperature : No data available
- Viscosity

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### SECTION 10. STABILITY AND REACTIVITY

**Possibility of hazardous reactions**: Hazardous polymerization does not occur.

**Incompatible materials**:
- Oxidizing agents
- Strong acids and strong bases

**Hazardous decomposition products**: Burning produces obnoxious and toxic fumes.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

**Product**:

**Acute oral toxicity**: LD50 (Rat): 4,587 mg/kg
- Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.

**Acute inhalation toxicity**: LC50 (Rat): > 1.0 mg/l
- Exposure time: 4 h
- Test atmosphere: dust/mist

**Acute dermal toxicity**: LD50 (Rabbit, male and female): > 4,000 mg/kg
- Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.

#### Ingredients:

**carboxin**:

**Acute oral toxicity**: LD50 (Rat, male): 2,588 mg/kg

**Acute inhalation toxicity**: LC50 (Rat, male and female): > 4.7 mg/l
- Exposure time: 4 h
- Assessment: The substance or mixture has no acute inhalation toxicity
- Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

**Acute dermal toxicity**: LD50 (Rabbit, male and female): > 4,000 mg/kg

**ethane-1,2-diol**:

**Acute oral toxicity**: LD50 (Rat, female): 4,700 mg/kg
Acute dermal toxicity: LD50 (Rabbit): 10,670 mg/kg  
**thiram:**  
Acute oral toxicity: LD50 (Rat, female): 1,800 mg/kg  
Acute inhalation toxicity: LC50 (Rat, female): 3.46 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg  

**Skin corrosion/irritation**  
**Product:**  
Species: Rabbit  
Result: Skin irritation  

**Ingredients:**  
**carboxin:**  
Species: Rabbit  
Result: No skin irritation  
**thiram:**  
Species: Rabbit  
Result: No skin irritation  

**Serious eye damage/eye irritation**  
**Product:**  
Species: Rabbit  
Assessment: No eye irritation  

**Ingredients:**  
**carboxin:**  
Species: Rabbit  
Result: Slight irritation  
Assessment: No eye irritation  
**thiram:**  
Species: Rabbit  
Result: Irritating to eyes.  
Assessment: Irritating to eyes.  

**Respiratory or skin sensitization**  
**Product:**  
Species: Guinea pig  
Assessment: Did not cause sensitization on laboratory animals.  
Remarks: Information given is based on data obtained from similar substances.
## Ingredients:

**carboxin:**
- Species: Guinea pig
- Assessment: May cause sensitization by skin contact.
- Method: Test de Magnusson-Kligmann
- Result: positive
- GLP: yes

**thiram:**
- Species: Guinea pig
- Assessment: May cause sensitization by skin contact.
- Result: Causes sensitization.

### Germ cell mutagenicity

**Ingredients:**

**carboxin:**
- Genotoxicity in vitro:
  - Test Type: Bacterial reverse mutation test
    - Species: Salmonella typhimurium
    - Result: negative
  - Test Type: Chromosome aberration test in vitro
    - Species: Chinese hamster ovary cells
    - Result: Negative without activation, positive with activation
  - Test Type: In Vitro mammalian Cell Gene Mutation Test
    - Species: Chinese hamster ovary cells
    - Result: negative
  - Test Type: Unscheduled DNA synthesis (UDS)
    - Species: rat hepatocytes
    - Result: positive

- Genotoxicity in vivo:
  - Test Type: Mammalian bone marrow chromosome aberration test
    - Species: Sprague-Dawley rat bone marrow cells
    - Result: negative
  - Test Type: Mammalian bone marrow chromosome aberration test
    - Species: Sprague-Dawley rat bone marrow cells
    - Result: negative
  - Test Type: Unscheduled DNA synthesis (UDS)
    - Species: Male Sprague-Dawley rat liver hepatocyte cells
    - Result: negative

**Germ cell mutagenicity - Assessment:**
- negative

**thiram:**
- Genotoxicity in vitro:
  - Species: Salmonella typhimurium
  - Method: Mutagenicity (Salmonella typhimurium - reverse mu-
tation assay)  
Result: positive  

Species: Chinese hamster ovary cells  
Result: negative  

Species: Chinese hamster ovary cells  
Method: In Vitro mammalian Cell Gene Mutation Test  
Result: negative  

Genotoxicity in vivo  
Test Type: Mammalian bone marrow chromosome aberration test  
Species: Mouse  
Result: negative  

Germ cell mutagenicity - Assessment  

negative  

Carcinogenicity  

Ingredients:  
carboxin:  
Species: Rat, (male)  
Application Route: Oral  
NOAEL: NOAEL (No observed adverse effect level): 0.82 mg/kg bw/day  

Carcinogenicity - Assessment  
negative  

Distillates (petroleum), solvent-dewaxed heavy paraffinic:  
Carcinogenicity - Assessment  
Weight of evidence does not support classification as a carcinogen  

thiram:  
Species: Rat  
Application Route: Oral  
NOAEL: NOAEL (No observed adverse effect level): 1.5 mg/kg bw/day  

Carcinogenicity - Assessment  
negative  

IARC  
Group 1: Carcinogenic to humans  
Distillates (petroleum), solvent-dewaxed heavy paraffinic  
64742-65-0  

OSHA  
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
SAFETY DATA SHEET

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NTP

Known to be human carcinogen

Distillates (petroleum), solvent-dewaxed heavy paraffinic

64742-65-0

Reproductive toxicity

Ingredients:
carboxin:
Effects on fertility:
- General Toxicity Parent: NOAEL (No observed adverse effect level): 1 mg/kg bw/day
- General Toxicity F1: No observed adverse effect level F1: 20 mg/kg bw/day
- Early Embryonic Development: No observed adverse effect level F2: 10 mg/kg bw/day

Effects on fetal development:
- Species: Rat
  - General Toxicity Maternal: NOAEL (No observed adverse effect level): 10 mg/kg bw/day
  - Teratogenicity: NOAEL (No observed adverse effect level): 90 mg/kg bw/day

- Species: Rabbit
  - General Toxicity Maternal: NOAEL (No observed adverse effect level): 75 mg/kg bw/day
  - Teratogenicity: NOAEL (No observed adverse effect level): 75 mg/kg bw/day

Reproductive toxicity - Assessment: negative

thiram:

Effects on fertility:
- Species: Rat
  - General Toxicity Parent: NOAEL (No observed adverse effect level): 2.3 mg/kg bw/day
  - General Toxicity F1: No observed adverse effect level F1: 9 mg/kg bw/day
  - Early Embryonic Development: No observed adverse effect level F2: 3 mg/kg bw/day

Effects on fetal development:
- Species: Rabbit
  - General Toxicity Maternal: NOAEL (No observed adverse effect level): 10 mg/kg bw/day
  - Teratogenicity: NOAEL (No observed adverse effect level): 10 mg/kg bw/day
  - Species: Rat
    - Teratogenicity: NOAEL (No observed adverse effect level): 7.5 mg/kg bw/day

Reproductive toxicity - Assessment: negative
STOT-single exposure

**Product:**
Remarks: No data available

**Repeated dose toxicity**

**Ingredients:**
**carboxin:**
Species: Rat, male  
NOAEL: 30 mg/kg  
Application Route: Dermal  
Exposure time: 28 d  
GLP: yes  
Target Organs: Kidney
Species: Rat, male  
NOAEL: 5.5 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
GLP: yes  
Target Organs: Kidney

**thiram:**
Species: Rat  
NOAEL: 2.5 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
Target Organs: Stomach
Species: Rabbit  
NOAEL: 300 mg/kg  
Application Route: Dermal  
Exposure time: 21 d
Species: Dog  
NOAEL: 2 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
Target Organs: Liver

---

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ingredients:**
**carboxin:**
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 2.3 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
GLP: yes
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 57 mg/l
Exposure time: 48 h
Test Type: flow-through test
GLP: yes

Toxicity to algae: EC50 (Pseudokirchneriella subcapitata (green algae)): 0.48 mg/l
Exposure time: 5 d
Test Type: static test

Toxicity to fish (Chronic toxicity): NOEC (Cyprinus carpio (Carp)): 0.32 mg/l
Exposure time: 21 d
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 0.32 mg/l
Exposure time: 17 d
GLP: yes

thiram:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.046 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 0.011 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae: EC50 (Pseudokirchneriella subcapitata (green algae)): 0.065 mg/l
Exposure time: 120 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): (Daphnia magna (Water flea)): 0.008 mg/l
Exposure time: 21 d

Persistence and degradability

Ingredients:

carboxin:
Biodegradability: Result: Not readily biodegradable.

thiram:
Biodegradability: Result: Not readily biodegradable.

Bioaccumulative potential

Ingredients:

carboxin:
Partition coefficient: n-octanol/water: log Pow: 2.3
ethane-1,2-diol:
Partition coefficient: n-octanol/water
: log Pow: -1.3

thiram:
Partition coefficient: n-octanol/water
: log Pow: 2.1

Mobility in soil
No data available

Other adverse effects

Product:
Ozone-Depletion Potential
: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Ingredients:
carboxin:
Results of PBT and vPvB assessment
: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
thiram:
Results of PBT and vPvB assessment
: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues
: Dispose of waste in accordance with environmental legislation. The product should not be allowed to enter drains, water courses or the soil.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG
UN number
: UN 3082
Proper shipping name
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carboxin, thiram)
Class
: 9
Packing group
: III
SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ</th>
<th>Component RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiram</td>
<td>137-26-8</td>
<td>10</td>
<td>72</td>
</tr>
</tbody>
</table>
SARA 304 Extremely Hazardous Substances Reportable Quantity

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene oxide</td>
<td>75-21-8</td>
<td>10</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards: Acute Health Hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

- carboxin 5234-68-4 15.2814 %
- ethane-1,2-diol 107-21-1 14.0767 %
- thiram 137-26-8 13.855 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
- ethane-1,2-diol 107-21-1 14.0767 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489):
- ethane-1,2-diol 107-21-1 14.0767 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
- naphthalene 91-20-3 0.024 %
- acetaldehyde 75-07-0 0.000 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:
- naphthalene 91-20-3 0.024 %
- acetaldehyde 75-07-0 0.000 %

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

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

- Distillates (petroleum), solvent-dewaxed 64742-65-0
- heavy paraffinic 14808-60-7
- quartz (SiO2) (Fr = 100%) 91-20-3
- naphthalene 75-21-8
- ethylene oxide 75-07-0
- acetaldehyde 123-91-1
WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

ethylene oxide 75-21-8

TSCA list
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

FIFRA Hazard Information:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

The hazard information required on the pesticide label is reproduced below.

CAUTION

Causes moderate eye and skin irritation. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Because of possible unpleasant side effects, avoid alcoholic beverages for 24 hours before and after working with VITAFLO-280 or treated seed.

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not use or store near heat or open flame.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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
Further information

NFPA:

Flammability: 2
Health: 1
Instability: 0

Special hazard.

HMIS III:

HEALTH: 2*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8
**Carechem24 International Worldwide Coverage**

**Emergency Phone Number**

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