



# HUDSON VALLEY™

## Safety Data Sheet

### HUDSON VALLEY Turf Fertilizer with IMI-LAMBDA

#### SECTION 1: Identification

##### 1.1 Product identifier

Product name HUDSON VALLEY Turf Fertilizer with IMI-LAMBDA

##### 1.2 Other means of identification

Granular fertilizer / Pesticide combination

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

For turf/ornamental fertilizer applications. See product label for application instructions.

##### 1.4 Supplier's details

Name Central Turf & Irrigation  
Address 8 Williams Street  
Elmsford NY 10523

Telephone 914-347-5656

##### 1.5 Emergency phone number(s)

USA National Capital Poison Center: 1 800 222 1222

#### SECTION 2: Hazard identification

##### General hazard statement

Avoid creating dust when handling, using or storing. Use outdoors or in well ventilated area to avoid exposure to dust.

##### 2.1 Classification of the substance or mixture

###### GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Carcinogenicity, Cat. 1A
- Skin corrosion/irritation, Cat. 3
- Eye damage/irritation, Cat. 2B
- Specific target organ toxicity (single exposure), Cat. 3

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### 2.2 GHS label elements, including precautionary statements

#### Pictogram



#### Signal word

H320  
H335  
H350  
H316

#### Danger

Causes eye irritation  
May cause respiratory irritation  
May cause cancer [inhalation]  
Causes mild skin irritation

#### Precautionary statement(s)

P201  
P202  
P261  
P264  
P271  
P280  
P304+P340  
P305+P351+P338

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Call a POISON CENTER/doctor/.../ if you feel unwell.  
If eye irritation persists: Get medical advice/attention.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container according to local regulations

P308+P313  
P312  
P337+P313  
P403+P233  
P405  
P501

#### 2.3 Other hazards which do not result in classification

No data available

## SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2 Mixtures

Name	Product identifier	%	Classification (GHS-US)
Urea	(CAS No) 57-13-6	0.1 - 98	Not classified
Sulfuric acid, dipotassium salt	(CAS No) 7778-80-5	0.1 - 95	Not classified
Limestone	(CAS No) 1317-65-3	0.1 - 95	Not classified
Monoammonium phosphate	(CAS No) 7722-76-1	0.1 - 60	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Urea, polymer with formaldehyde	(CAS No) 9011-05-6	0.1 - 60	Not classified
Diammonium phosphate	(CAS No) 7783-28-0	0.1 - 50	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335 Aquatic Acute 3, H402
Bentonite	(CAS No) 1302-78-9	0.1 - 50	Not classified
Potassium chloride	(CAS No) 7447-40-7	0.1 - 20	Eye Irrit. 2B, H320
Ammonium sulfate	(CAS No) 7783-20-2	0.1 - 20	Aquatic Acute 2, H401

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Ferrous sulfate	(CAS No) 7720-78-7	0.1 - 20	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400
Manganese oxide (Mn <sub>3</sub> O <sub>4</sub> )	(CAS No) 1317-35-7	0.1 - 20	Not classified
Magnesium oxide(MgO)	(CAS No) 1309-48-4	0.1 - 20	Not classified
Potassium nitrate	(CAS No) 7757-79-1	0.1 - 20	Ox. Sol. 2, H272
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	(CAS No) 1309-37-1	0.1 - 10	Not classified
Magnesium sulfate	(CAS No) 7487-88-9	0.1 - 10	Skin Sens. 1, H317
Sulfate of Potash-Magnesia	(CAS No) 14977-37-8	0.1 - 10	Not classified
Saccharated iron oxide	(CAS No) 8047-67-4	0.1 - 10	Not classified
Carbonic acid, magnesium salt (1:1), mixture with magnesium hydroxide(Mg(OH) <sub>2</sub> ), hydrate	(CAS No) 39409-82-0	0.1 - 10	Not classified
Sulfur	(CAS No) 7704-34-9	0.1 - 5	Comb. Dust Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Aquatic Acute 3, H402
Sodium chloride	(CAS No) 7647-14-5	0.1 - 5	Not classified
Manganese	(CAS No) 7439-96-5	0.1 - 5	Not classified

This Safety Data Sheet is not a guarantee of product specification or NPK value(s).

**Trade secret statement (OSHA 1910.1200(i))**

\*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

Note: The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**SECTION 4: First-aid measures**

**4.1 Description of necessary first-aid measures**

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided by a qualified operator. Get medical attention if irritation develops and persists
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce

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vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Refer to first-aid section of product label

#### 4.2 Most important symptoms/effects, acute and delayed

INHALATION: May cause respiratory irritation.

SKIN: Skin irritation

EYES: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

INGESTION: May cause discomfort if swallowed. May be harmful if swallowed in large quantities.

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically.

## SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff. Prevent firefighter water from entering the environment.

Small fires: Water spray, foam, dry chemical or CO<sub>2</sub>

Large fires: Water spray, fog or foam.

#### 5.2 Specific hazards arising from the chemical

Container may rupture on heating. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Explosive reactions with oxidizing agents such as potassium chlorate and/or peroxides. In case of fire hazardous decomposition products may be produced such as:

Ammonia

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

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Potassium chloride: Hydrogen chloride gas, Potassium oxides

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Bentonite: Aluminum oxide, silicon oxide

#### 5.3 Special protective actions for fire-fighters

In the event of fire and/or explosion do not breathe fumes. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

## SECTION 6: Accidental release measures

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

Wear personal protective equipment. Unprotected persons must be kept away. Evacuate personnel to safe areas. Provide adequate ventilation. Avoid dust formation. Avoid breathing dust.

#### 6.2 Environmental precautions

Fertilizers will dissolve and disperse in water and promote algae growth, notify downstream water users of any release that may affect water quality

#### 6.3 Methods and materials for containment and cleaning up

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Clean contaminated surface thoroughly.

Pick up and arrange disposal without creating dust. Use a suitable vacuum cleaner.

## SECTION 7: Handling and storage

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### 7.1 Precautions for safe handling

Keep out of reach of children. Do not swallow. Avoid breathing dust or mist. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks and flame. Good housekeeping and controlling of dusts are necessary for safe handling of product. Wash thoroughly after handling. Eating, drinking and smoking is prohibited when handling product. Use with adequate ventilation. Provide exhaust ventilation if dust is formed. Handle in accordance with good industrial hygiene and safety practice.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Containers should be protected against falling down. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible substances. Avoid generation and spreading of dust.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	2500 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Magnesium oxide (MgO) (1309-48-4)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	750 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
<b>Limestone (1317-65-3)</b>		
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Manganese (7439-96-5)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2 Appropriate engineering controls

#### Exposure Controls Appropriate Engineering Controls

Ensure all national/local regulations are observed.

#### Personal Protective Equipment

Gloves. Safety glasses. Protective clothing. Insufficient ventilation: wear respiratory protection.



#### Materials for Protective Clothing

Chemically resistant materials and fabrics. protective gloves.

#### Hand Protection

Chemical goggles or safety glasses.

#### Eye Protection

Wear suitable protective clothing.

#### Skin and Body Protection

If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

#### Respiratory Protection

When using, do not eat, drink or smoke.

#### Other Information

#### Respiratory protection

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A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits or respiratory irritation is experienced. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator use.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Multi-color granules
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

### Other safety information

Bulk Density : 63.4

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage and use conditions. Some components may react if exposed to incompatible materials.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Contact with incompatible materials. Keep away from open flames, hot surfaces, and sources of ignition.

### 10.5 Incompatible materials

Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride may cause fire and/or explosions. Some components of limestone may react vigorously with water and strong acids.

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Silica, crystalline : Hydrogen fluoride

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Potassium chloride: Strong acids, Strong oxidizing agents

### 10.6 Hazardous decomposition products

The decomposition of fertilizer products may result in the generation of some or all of the following: ammonia, formaldehyde, biuret, chlorine, cyanic acid, and cyanide, and oxides of carbon, nitrogen, phosphorus, potassium, sulfur, and chlorine, and oxides of alkaline earth metals, and certain heavier metals used as nutrients in fertilizer products, such as copper, iron, manganese, and zinc, and other irritating and toxic fumes and gases.

## SECTION 11: Toxicological information

### Information on toxicological effects

<b>Sulfuric acid, dipotassium salt (7778-80-5)</b>	
LD50 Oral Rat	6600 mg/kg
<b>Diammonium phosphate (7783-28-0)</b>	
LD50 Oral Rat	6500 mg/kg
LD50 Dermal Rabbit	> 7950 mg/kg
<b>Potassium chloride (7447-40-7)</b>	
LD50 Oral Rat	2600 mg/kg
<b>Monoammonium phosphate (7722-76-1)</b>	
LD50 Oral Rat	5750 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg
<b>Ammonium sulfate (7783-20-2)</b>	
LD50 Oral Rat	2000 mg/kg
<b>Sulfur (7704-34-9)</b>	
LD50 Oral Rat	> 3000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat (mg/l)	> 9.23 mg/l/4h
<b>Iron oxide (Fe2O3) (1309-37-1)</b>	
LD50 Oral Rat	> 10000 mg/kg
<b>Ferrous sulfate (7720-78-7)</b>	
LD50 Oral Rat	237 mg/kg
<b>Sodium chloride (7647-14-5)</b>	
LD50 Oral Rat	3 g/kg
LC50 Inhalation Rat (mg/l)	> 42 g/m <sup>3</sup> (Exposure time: 1 h)
<b>Potassium nitrate (7757-79-1)</b>	
LD50 Oral Rat	3015 mg/kg
<b>Bentonite (1302-78-9)</b>	
LD50 Oral Rat	> 5000 mg/kg
<b>Manganese (7439-96-5)</b>	
ATE (Oral)	9000.000 mg/kg body weight
<b>Urea, polymer with formaldehyde (9011-05-6)</b>	
LC50 Inhalation Rat (mg/l)	> 167 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>(S,S)-Dimethyl 2-(difluoromethyl)-4-(2-methyl propyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate (97886-45-8)</b>	
LC50 Inhalation Rat (mg/l)	> 6 g/m <sup>3</sup> (Exposure time: 4 h)
<b>Urea (57-13-6)</b>	
ATE (Oral)	8471.000 mg/kg

**Skin Corrosion/Irritation:** Causes skin irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

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**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

<b>Iron oxide (Fe2O3) (1309-37-1)</b>	
<b>IARC group</b>	3
<b>Saccharated iron oxide (8047-67-4)</b>	
<b>IARC group</b>	3

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Potential Adverse Human Health Effects and Symptoms:** Harmful if swallowed.

**Symptoms/Injuries After Inhalation:** Irritating to the respiratory system and mucous membranes. May cause cancer by inhalation. May cause drowsiness or dizziness.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation.

**Symptoms/Injuries After Ingestion:** Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

**Chronic Symptoms:** May cause cancer.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecology - General** : Harmful to aquatic life with long lasting effects.

<b>Sulfuric acid, dipotassium salt (7778-80-5)</b>	
<b>LC50 Fish 1</b>	653 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
<b>EC50 Daphnia 1</b>	890 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>EC50 Other Aquatic Organisms 1</b>	2900 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
<b>LC 50 Fish 2</b>	3550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Diammonium phosphate (7783-28-0)</b>	
<b>LC50 Fish 1</b>	26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
<b>LC 50 Fish 2</b>	24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
<b>Potassium chloride (7447-40-7)</b>	
<b>LC50 Fish 1</b>	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>EC50 Daphnia 1</b>	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>EC50 Other Aquatic Organisms 1</b>	2500 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
<b>LC 50 Fish 2</b>	750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>EC50 Daphnia 2</b>	83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Ammonium sulfate (7783-20-2)</b>	
<b>LC50 Fish 1</b>	5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>EC50 Daphnia 1</b>	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>LC 50 Fish 2</b>	32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow- through])
<b>Sulfur (7704-34-9)</b>	
<b>LC50 Fish 1</b>	866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
<b>LC 50 Fish 2</b>	14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Ferrous sulfate (7720-78-7)</b>	
<b>LC50 Fish 1</b>	925 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])

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<b>EC50 Daphnia 1</b>	152 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>LC 50 Fish 2</b>	0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
<b>EC50 Daphnia 2</b>	6.15 - 9.26 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

<b>Sodium chloride (7647-14-5)</b>	
<b>LC50 Fish 1</b>	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow- through])
<b>EC50 Daphnia 1</b>	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>LC 50 Fish 2</b>	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>EC50 Daphnia 2</b>	340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Bentonite (1302-78-9)</b>	
<b>LC50 Fish 1</b>	19000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>Magnesium sulfate (7487-88-9)</b>	
<b>LC50 Fish 1</b>	2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>EC50 Daphnia 1</b>	266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>EC50 Other Aquatic Organisms 1</b>	2700 mg/l (Exposure time: 72 h - Species: Desmodemus subspicatus)
<b>Urea (57-13-6)</b>	
<b>LC50 Fish 1</b>	16200 - 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)
<b>EC50 Daphnia 1</b>	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

**12.2. Persistence and Degradability**

<b>HUDSON VALLEY TURF FERTILIZER IMI-LAMBDA</b>	
<b>Persistence and Degradability</b>	May cause long-term adverse effects in the environment. This product is water soluble and eventually biodegrades into elemental nitrogen. Excess nitrogen and nitrates in a body of water will contribute to eutrophication with visible effects such as toxic algae bloom. Not established.

**12.3. Bioaccumulative Potential**

<b>HUDSON VALLEY TURF FERTILIZER WITH IMI-LAMBDA</b>	
<b>Bioaccumulative Potential</b>	Not established.
<b>Diammonium phosphate (7783-28-0)</b>	
<b>BCF fish 1</b>	(no bioaccumulation expected)
<b>Monoammonium phosphate (7722-76-1)</b>	
<b>BCF fish 1</b>	(no bioaccumulation expected)
<b>Ammonium sulfate (7783-20-2)</b>	
<b>Log Pow</b>	-5.1 (at 25 °C)
<b>Sodium chloride (7647-14-5)</b>	
<b>BCF fish 1</b>	(no bioaccumulation)
<b>Urea (57-13-6)</b>	
<b>BCF fish 1</b>	< 10
<b>Log Pow</b>	-1.59 (at 25 °C)

**12.4. Mobility in Soil** No additional information available

**12.5. Other Adverse Effects**

Other Information: Avoid release to the environment

**SECTION 13: Disposal considerations**

**Disposal of the product**

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Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. See product label for disposal instructions. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative the nearest EPA Regional Office for guidance.

### Disposal of contaminated packaging

Non - refillable container. See product label for container disposal instructions.

### Waste treatment

Consult federal, state/provincial and local regulations regarding the proper disposal of this material.

### Sewage disposal

Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

## SECTION 14: Transport information

14.1 UN Number	None
14.2 UN Proper Shipping Name	None
14.3 Transport hazard class(es)	None
14.4 Packing group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	None

## SECTION 15: Regulatory information

### 15.1 US Federal Regulations

<b>EPA TSCA Regulatory Flag</b>	This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard

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**Sulfuric acid, dipotassium salt (7778-80-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Diammonium phosphate (7783-28-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Potassium chloride (7447-40-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Monoammonium phosphate (7722-76-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Ammonium sulfate (7783-20-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Sulfur (7704-34-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Ferrous sulfate (7720-78-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Manganese oxide (Mn<sub>3</sub>O<sub>4</sub>) (1317-35-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Sodium chloride (7647-14-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Magnesium oxide (MgO) (1309-48-4)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Limestone (1317-65-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Potassium nitrate (7757-79-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Bentonite (1302-78-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Manganese (7439-96-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

**SARA Section 313 - Emission Reporting**

1.0 %

**Urea, polymer with formaldehyde (9011-05-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Magnesium sulfate (7487-88-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Urea (57-13-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2 US State Regulations**

**Potassium chloride (7447-40-7)**

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

**Monoammonium phosphate (7722-76-1)**

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

**Ammonium sulfate (7783-20-2)**

## Safety Data Sheet

### HUDSON VALLEY Turf Fertilizer with IMI-LAMBDA

U.S. - California - SCAQMD - Toxic Air Contaminants With Proposed Risk Values  
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) RTK - U.S. - Massachusetts - Right To Know List  
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

#### **Sulfur (7704-34-9)**

RTK - U.S. - Massachusetts - Right To Know List  
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Mexico - Air Quality - Ambient Air Quality Standards RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

#### **Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)**

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U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Idaho - Occupational Exposure Limits - TWAs RTK - U.S. - Massachusetts - Right To Know List  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - TWAs  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual RTK - U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New York - Occupational Exposure Limits - TWAs  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
U.S. - Oregon - Permissible Exposure Limits - TWAs RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Washington - Permissible Exposure Limits - TWAs  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

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#### **Ferrous sulfate (7720-78-7)**

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# Safety Data Sheet

## HUDSON VALLEY Turf Fertilizer with IMI-LAMBDA

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U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Louisiana - Reportable Quantity List for Pollutants

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity

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U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2 RTK - U.S. - Massachusetts - Right To Know List

U.S. - Massachusetts - Toxics Use Reduction Act

U.S. - Michigan - Polluting Materials List

U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List RTK - U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

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### **Manganese oxide (Mn<sub>3</sub>O<sub>4</sub>) (1317-35-7)**

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U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) RTK - U.S. - Massachusetts - Right To Know List

U.S. - Michigan - Occupational Exposure Limits - TWAs

U.S. - Minnesota - Hazardous Substance List

U.S. - Minnesota - Permissible Exposure Limits - TWAs

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - North Carolina - Control of Toxic Air Pollutants RTK - U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Tennessee - Occupational Exposure Limits - TWAs

U.S. - Vermont - Permissible Exposure Limits - TWAs

U.S. - Washington - Permissible Exposure Limits - STELs

U.S. - Washington - Permissible Exposure Limits - TWAs

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### **Sodium chloride (7647-14-5)**

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U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

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### **Magnesium oxide (MgO) (1309-48-4)**

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U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)

U.S. - Idaho - Occupational Exposure Limits - TWAs RTK - U.S. - Massachusetts - Right To Know List

U.S. - Michigan - Occupational Exposure Limits - TWAs

U.S. - Minnesota - Hazardous Substance List

U.S. - Minnesota - Permissible Exposure Limits - TWAs

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New York - Occupational Exposure Limits - TWAs

U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour

U.S. - Oregon - Permissible Exposure Limits - TWAs RTK - U.S. - Pennsylvania - RTK (Right to Know)

# Safety Data Sheet

## HUDSON VALLEY Turf Fertilizer with IMI-LAMBDA

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List

U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Washington - Permissible Exposure Limits - TWAs

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### **Limestone (1317-65-3)**

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U.S. - Idaho - Occupational Exposure Limits - TWAs  
RTK - U.S. - Massachusetts - Right To Know List  
U.S. - Michigan - Occupational Exposure Limits - TWAs

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U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - TWAs  
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Oregon - Permissible Exposure Limits - TWAs RTK - U.S. - Pennsylvania - RTK (Right to Know)  
List

U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Washington - Permissible Exposure Limits - TWAs

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### **Potassium nitrate (7757-79-1)**

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RTK - U.S. - Massachusetts - Right To Know List  
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

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### **Bentonite (1302-78-9)**

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U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

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### **Manganese (7439-96-5)**

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U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic  
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)  
U.S. - Colorado - Primary Drinking Water Regulations - Secondary Maximum Contaminant Levels (SMCLs)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Florida - Drinking Water Standards - Secondary Maximum Contaminant Levels (SMCLs)  
U.S. - Georgia - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Idaho - Occupational Exposure Limits - Ceilings  
U.S. - Illinois - Toxic Air Contaminant Carcinogens  
U.S. - Illinois - Toxic Air Contaminants  
U.S. - Louisiana - Reportable Quantity List for Pollutants  
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants  
U.S. - Massachusetts - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs) RTK - U.S. - Massachusetts - Right To Know List  
U.S. - Massachusetts - Toxics Use Reduction Act

## Safety Data Sheet

### HUDSON VALLEY Turf Fertilizer with IMI-LAMBDA

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U.S. - Michigan - Occupational Exposure Limits - STELs  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Minnesota - Chemicals of High Concern  
U.S. - Minnesota - Groundwater Health Risk Limits  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - STELs  
U.S. - Minnesota - Permissible Exposure Limits - TWAs  
U.S. - Missouri - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)  
U.S. - Nevada - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)  
U.S. - New Hampshire - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
U.S. - New Jersey - Environmental Hazardous Substances List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Secondary Drinking Water Standards - Recommended Upper Limits (RULs)  
U.S. - New Jersey - Special Health Hazards Substances List

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U.S. - New Jersey - Water Quality - Ground Water Quality Criteria  
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)  
U.S. - New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less  
U.S. - New York - Occupational Exposure Limits - Ceilings  
U.S. - North Carolina - Control of Toxic Air Pollutants  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
U.S. - Oregon - Permissible Exposure Limits - Ceilings  
U.S. - Pennsylvania - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs) RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual  
U.S. - South Carolina - Secondary Maximum Contaminant Levels (SMCLs)  
U.S. - Tennessee - Occupational Exposure Limits - STELs  
U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - Drinking Water Standards - Secondary Constituent Levels (SCLs)  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Utah - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)  
U.S. - Vermont - Permissible Exposure Limits - Ceilings  
U.S. - Vermont - Permissible Exposure Limits - STELs  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Virginia - Water Quality Standards - Public Water Supply Effluent Limits  
U.S. - Washington - Permissible Exposure Limits - Ceilings  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

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**Urea, polymer with formaldehyde (9011-05-6)**

## Safety Data Sheet

### HUDSON VALLEY Turf Fertilizer with IMI-LAMBDA

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U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

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#### **Magnesium sulfate (7487-88-9)**

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U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

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#### **Urea (57-13-6)**

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U.S. - Minnesota - Hazardous Substance List

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

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## SECTION 16: Other information

This safety data sheet was developed from safety data sheets of suppliers of the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or beyond its intended use. This information is based on our present knowledge and is provided according to the relevant national regulations.

### **16.1 Further information/disclaimer**

This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Ferti Technologies. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purposes.

### **16.2 Preparation information**

The classification of the mixture was set based on the regulation (US) HazCom 1910.1200 [HCS 2012].