

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/31/2022

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : VENTI MAX
Product code : 89168-125-89391

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Herbicide

1.3. Supplier

INNVICTIS® CROP CARE, LLC 1880 Fall River Drive, Suite 100 Loveland, CO 80538 T 855-466-8428

1.4. Emergency telephone number

Emergency number : ChemTrec 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (inhalation:gas) Category 4 H332 Harmful if inhaled.
Serious eye damage/eye irritation, Category 2B H320 Causes eye irritation
Hazardous to the aquatic environment — Acute Hazard, Category 2 H401 Toxic to aquatic life

Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411 Toxic to aquatic life with long lasting effects.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)





Signal word (GHS US) : Warning

Hazard statements (GHS US)

: H320 - Causes eye irritation
H332 - Harmful if inhaled.

H401 - Toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Wash hands, forearms and face thoroughly after h

P273 - Avoid release to the environment.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 - Call a poison center/doctor/... if you feel unwell P337+P313 - If eye irritation persists: Get medical attention

P391 - Collect spillage.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
N-(phosphonomethyl)glycine, isopropylamine salt	(CAS-No.) 38641-94-0	53.8
1,2,3-Propanetriol	(CAS-No.) 56-81-5	PROPRIETARY

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

If in Eyes: Hold eye open and rinse slowly and gently with water Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

If on Skin or Clothing: Take off contaminated clothing. Wash with soap and water. Get medical attention if irritation develops and persists.

If Inhaled: Move person to fresh air. If symptoms develop, get medical advice.

If Swallowed: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If symptoms develop, get medical advice.

Most Important symptoms/effects, acute and delayed: None expected. May cause mild eye irritation.

Indication of Immediate medical attention and special treatment if needed: For ingestion, there is no specific antidote available. Treat symptomatically.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact : mild eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire

: May produce gases such as oxides of carbon, nitrogen, and phosphorous.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

 Firefighters should wear NIOSH approved self-contained breathing apparatus and full firefighting turn out gear. Dike area to prevent runoff and contamination of water sources.
 Dispose of fire control water later.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

6.3. Methods and material for containment and cleaning up

For containment

: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for cleaning up

: Pump any free liquid into an appropriate closed container. Collect washings for disposal.

Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL

CONSIDERATIONS for more information.

Other information

: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove Protective Equipment (PPE) immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SOLUTIONS OF THIS PRODUCT IN GALVANIZED

STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source. clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal.

Hygiene measures

: STORE ABOVE 32° F (0° C) TO KEEP PRODUCT FROM CRYSTALLIZING. Crystals will settle to the bottom. If allowed to crystallize, warm to 68° F (20° C) and mix well or recirculate to redissolve before using. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

VENTI MAX		
No additional information available		
N-(phosphonomethyl)glycine, isopropylamine salt (38641-94-0)		
Local name	Glyphosate IPA	
OSHA PEL (TWA) (mg/m³)	Note Established	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
1,2,3-Propanetriol (56-81-5)		
USA - OSHA - Occupational Exposure Limits		
Local name	Glycerin (mist)	
OSHA PEL (TWA) (mg/m³) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Regulatory reference (US-OSHA) OSHA Annotated Table Z-1		

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

To avoid contact with eyes, wear goggles or safety glasses with front, brow and temple protection. Washing facilities should be readily accessible to the work area.

Skin and body protection:

To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical resistant gloves. Washing facilities should be readily accessible to the work area.

Respiratory protection:

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[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear pale yellow.
Colour : Clear amber-yellow

Odour : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour:

Odourless

Odour threshold : No data available

рΗ 4.6 - 5.1Melting point Not applicable Freezing point : No data available Boiling point > 100 °C (>212F) Flash point : No data available : No data available Relative evaporation rate (butylacetate=1) Flammability (solid, gas) : Not applicable. Vapour pressure : No data available Relative vapour density at 20 °C No data available Relative density : 1.18 - 1.25 g/mL

Solubility : Water: 1.05 g/ml @25C (active ingredient)

Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic **Explosive limits** No data available Explosive properties : No data available Oxidising properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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Possibility of hazardous reactions

This product reacts with galvanized steel or unlined steel (except stainless steel) to produce hydrogen gas that may form a highly combustible gas mixture which could flash or explode.

Conditions to avoid

Excessive heat. Do not store near heat or flame

Incompatible materials

Strong oxidizing agents: bases and acids. This product reacts with galvanized steel or unlined steel (except stainless steel) to produce hydrogen gas that may form a highly combustible gas mixture which could flash or explode.

Hazardous decomposition products

Under fire conditions, may produce gases such as oxides of carbon, nitrogen and phosphorous...

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Harmful if inhaled.

VENTI MAX	
LD50 oral rat	> 5000
LD50 dermal rat	> 5000
LC50 inhalation rat (mg/l)	> 2.5 mg/l/4h
ATE US (gases)	4500 ppmv/4h

N-(phosphonomethyl)glycine, isopropylamine salt (38641-94-0)	
LD50 oral rat	10537 mg/kg (Rat, Oral)
LD50 dermal rat	7500 mg/kg (Rat, Dermal)

1,2,3-Propanetriol (56-81-5)	
LD50 oral rat 27200 mg/kg (Rat; Experimental value)	
LC50 inhalation rat (mg/l)	> 2.75 mg/l/4h (Rat; Experimental value)

Skin corrosion/irritation : Not classified pH: 4.6 - 5.1

Causes eye irritation. Serious eye damage/irritation

pH: 4.6 - 5.1

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity

IARC group	2A - Probably carcinogenic to humans

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified Viscosity, kinematic : No data available Symptoms/effects after eye contact : mild eye irritation.

SECTION 12: Ecological information

12.1. **Toxicity**

Glyphosate IPA Salt

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

1,2,3-Propanetriol (56-81-5)	
LC50 fish 1 54000 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Lethal)	
LC50 other aquatic organisms 1 > 1000 mg/l (96 h)	
EC50 Daphnia 1> 10000 mg/l (24 h; Daphnia magna; Locomotor effect)LC50 fish 2> 1000 mg/l (96 h; Pisces)	

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1,2,3-Propanetriol (56-81-5)		
TLM fish 1 > 1000 ppm (96 h; Pisces)		
TLM other aquatic organisms 1	> 1000 ppm (96 h)	
Threshold limit other aquatic organisms 1 > 1000 mg/l (96 h)		
Threshold limit algae 1	> 10000 mg/l (8 days; Scenedesmus quadricauda; Turbid water)	
Threshold limit algae 2	2900 mg/l (192 h; Microcystis aeruginosa; Toxicity test)	

Ecotoxicity:

Data on Glyphosate IPA

96-hour LC50 Rainbow Trout: >1000 mg/l

48-hour EC50 Daphnia: 930 mg/l 72-hour ErC50 Algae: 166 mg/l

Data on Glyphosate Acid: 96-hour LC50 Bluegill: 120 mg/l, Bobwhite Quail Acute Oral LD50: >3,851 mg/kg

96-hour LC50 Rainbow Trout: 786 mg/l, Bobwhite Quail 5-day Dietary LC50: >4,640 ppm

48-hour EC50 Daphnia: 780 mg/l, Mallard Duck 5-day Dietary LC50: >4,640 ppm

96-hour EC50 Diatoms: 1.3 mg/l 14-day EC50 Duckweed: 25.5 mg/l 72-hour EC50 Algae: 450 mg/l.

Environmental Fate:

In the environment glyphosate adsorbs strongly to soil and is expected to be immobile in soil. Glyphosate is readily degraded by soil microbes to AMPA (aminomethyl phosphonic acid) that is further degraded to carbon dioxide. Glyphosate and AMPA are unlikely to enter ground water due to their strong adsorptive characteristics. Terrestrially-applied glyphosate has the potential to move into surface waters through soil erosion because it may be adsorbed to soil particles suspended in the runoff. Aquatic applications registered for certain formulations may also result in glyphosate entering surface waters. Complete degradation is slow, but dissipation in water is rapid because glyphosate is bound in sediments and has low biological availability to aquatic organisms. These characteristics suggest a low potential for bioconcentration in aquatic organisms and this has been verified by laboratory investigations of glyphosate bioconcentration in numerous marine and freshwater organisms with and without soil. The maximum whole body bioconcentration factors for fish were observed to be less than 1X. Bioconcentration factors for sediment dwelling mollusks and crayfish tended to be slightly higher, but were always less than 10X. In addition, any residues accumulated in organisms were rapidly eliminated.

12.2. Persistence and degradability

N-(phosphonomethyl)glycine, isopropylamine salt (38641-94-0)		
Persistence and degradability	Not readily biodegradable in water.	
1,2,3-Propanetriol (56-81-5)		
Persistence and degradability	Readily biodegradable in water. Not established.	
Biochemical oxygen demand (BOD)	0.87 g O₂/g substance	
Chemical oxygen demand (COD)	1.16 g O₂/g substance	
ThOD	1.217 g O₂/g substance	
BOD (% of ThOD)	0.71 % ThOD	

12.3. Bioaccumulative potential

N-(phosphonomethyl)glycine, isopropylamine salt (38641-94-0)		
Partition coefficient n-octanol/water (Log Pow)	<1	
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).		
1,2,3-Propanetriol (56-81-5)		
Partition coefficient n-octanol/water (Log Pow)	-1.75 (Experimental value; Equivalent or similar to OECD 107)	

12.4. Mobility in soil

1,2,3-Propanetriol (56-81-5)	
Surface tension	0.0634 N/m (20 °C; 1000 g/l)

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste Disposal Method:

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Wastes resulting from use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container retains vapors and product reside. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Container Handling and Disposal:

Nonrefillable Containers 5 Gallons or Less: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

Nonrefillable containers larger than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallons: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

SECTION 14: Transport information

Department of Transportation (DOT)

Not regulated by DOT for US ground transport.

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

VENTI MAX

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

N-(phosphonomethyl)glycine, isopropylamine salt	CAS-No. 38641-94-0	53.8%
FIFRA Labelling		
EPA Registration Number 89168-125-89391		
This chemical is a pesticide product registered by federal pesticide law. These requirements differ fr workplace labels of non-pesticide chemicals. Follows	om the classification criteria and hazard inform	ation required for safety data sheets, and for
FIFRA Signal Word	Caution	
FIFRA Precautionary Statement Call a doctor if you feel unwell. Keep out of reach of children.		
FIFRA Human Health Hazards	using tobacco. Remove and wash contamina Domestic Animals: This product is considered domestic animals; however, ingestion of this vegetation may result in temporary gastrointe	g and before eating, drinking, chewing gum, or ted clothing before reuse. If to be relatively non-toxic to dogs and other product or large amounts of freshly sprayed estinal irritation (vomiting, diarrhea, colic, etc.). If imal with plenty of fluids to prevent dehydration.

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FIFRA Labelling	
FIFRA First Aid	IF IN EYES: •Hold eye open and rinse slowly and gently with water for 15-20 minutes. •Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. •Call a poison control center or doctor for treatment advice.
FIFRA Environmental Hazards	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 contaminate water when cleaning equipment or disposing of equipment wash waters and rinsate.
FIFRA Physical Hazard	Spray solutions of this product may be mixed, stored and applied using stainless steel, fiberglass, plastic or plastic-lined steel containers. DO NOT mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas, which can form a highly combustible gas mixture. This gas mixture could flash or explode if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source and cause serious personal injury.

15.2. International regulations

CANADA

N-(phosphonomethyl)glycine, isopropylamine salt (38641-94-0)

Listed on the Canadian DSL (Domestic Substances List)

1,2,3-Propanetriol (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

VENTI MAX

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.

TSCA Inventory: This product is exempted from TSCA because it is solely for FIFRA regulated use.

SARA Hazard Notification/Reporting:

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370):

Not Hazardous

Section 313 Toxic Chemical(s):

None

Reportable Quantity (RQ) under U.S. CERCLA:

None

RCRA Waste Code:

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
1,2,3-Propanetriol(56-81-5)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of H-statements:

H320	Causes eye irritation
H332	Harmful if inhaled.
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects.

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Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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