INNVICTIS CROP CARE

VYPERA L

Safety Data Sheet

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

Date of revision: 07/14/2025

SECTION 1: Identification

1.1. Identification

Product name : VYPERA L
Product code : 89167-94-89391

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Pesticides

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

Flammable liquids, Category 3 Acute toxicity (oral), Category 2

Acute toxicity (inhalation:dust,mist) Category 2
Society and demaga/ava irritation Category 2

Serious eye damage/eye irritation, Category 2

Carcinogenicity, Category 1B

Specific target organ toxicity — Single exposure, Category 1

Full text of H statements : see section 16

H226 Flammable liquid and vapour.

H300 Fatal if swallowed.

H330 Fatal if inhaled.

H319 Causes serious eye irritation.

H350 May cause cancer.

H370 Causes damage to organs.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)









Signal word (GHS US) : Danger

Hazard statements (GHS US) : H226 - Flammable liquid and vapour.

H300+H330 - Fatal if swallowed or if inhaled

H319 - Causes serious eye irritation.

H350 - May cause cancer.

H370 - Causes damage to organs.

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P284 - [In case of inadequate ventilation] wear respiratory protection. P301+P310 - If swallowed: Immediately call a poison center/doctor/...

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

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

contact lenses, if present and easy to do. Continue rinsing. P307+P311 - If exposed: Call a poison center/doctor P308+P313 - If exposed or concerned: Get medical attention

P310 - Immediately call a poison center/doctor/...

P320 - Specific treatment is urgent (see supplemental first aid instruction on this label).

P321 - Specific treatment (see supplemental first aid instruction on this label)

P330 - Rinse mouth.

P337+P313 - If eye irritation persists: Get medical attention

P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

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

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

Substances

Not applicable

Mixtures 3.2.

Name	Product identifier	%	GHS-US classification
Methanol	(CAS-No.) 67-56-1	10-30	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Propylene carbonate	(CAS-No.) 108-32-7	5-10	Eye Irrit. 2, H319
Oxamyl	(CAS-No.) 23135-22-0	24	Acute Tox. 1 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330

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

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general : Call a physician immediately.

: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. First-aid measures after inhalation

Call a doctor.

Rinse skin with water/shower. Take off immediately all contaminated clothing. First-aid measures after skin contact

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical attention.

First-aid measures after ingestion : Rinse mouth. Call a physician immediately.

Most important symptoms and effects (acute and delayed)

: Eye irritation. Symptoms/effects after eye contact

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

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

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour. Hazardous decomposition products in case of : Toxic fumes may be released.

fire

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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

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

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eves.

Hygiene measures

: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

VYPERAL

No additional information available

oxamyl (23135-22-0)

No additional information available

methanol (67-56-1)

No additional information available

propylene carbonate (108-32-7)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Environmental exposure controls

: Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[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 blue liquid.

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

Colourless

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:

Unpleasant odour

Odour threshold : No data available

pH : 4.48

Melting point: Not applicableFreezing point: No data availableBoiling point: No data available

Flash point : 32.5 °C

Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Not applicable.

Vapour pressure : 17 mm Hg

Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1.07 g/cm³

Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : 2.9 mm²/s

Viscosity, dynamic : 3.1 mPa·s

Explosive limits : No data available

Explosive properties : No data available

Oxidising properties : No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Fatal if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Fatal if inhaled.

VYPERA L	
LD50 oral rat	12.32 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	≈ 0.24 mg/l/4h
ATE US (oral)	12.32 mg/kg bodyweight
ATE US (dust,mist)	0.111 mg/l/4h

oxamyl (23135-22-0)	
LD50 oral rat	2.5 mg/kg (Rat, Oral)
LD50 dermal rabbit	740 mg/kg (Rabbit, Dermal)

Skin corrosion/irritation : Not classified

pH: 4.48

Serious eye damage/irritation : Causes serious eye irritation.

pH: 4.48

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

Reproductive toxicity : Not classified

STOT-single exposure : Causes damage to organs.

methanol (67-56-1)	
STOT-single exposure	Causes damage to organs.
STOT-repeated exposure	: Not classified
Aspiration hazard Viscosity, kinematic	: Not classified: 2.9 mm²/s
Symptoms/effects after eye contact	: Eye irritation.

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SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

oxamyl (23135-22-0)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

oxamyl (23135-22-0)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

oxamyl (23135-22-0)	
Ecology - soil	Not toxic to plants. Toxic to fauna. Toxic to bees.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2991 Carbamate pesticides, liquid, toxic, flammable (OXAMYL), 6.1 (3), II

UN-No.(DOT) : UN2991

Proper Shipping Name (DOT) : Carbamate pesticides, liquid, toxic, flammable

(OXAMYL)

Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Packing group (DOT) : II - Medium Danger

Subsidiary risk (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 6.1 - Poison 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 243

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DOT Special Provisions (49 CFR 172.102)

: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal...... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is

transported by sea.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153 DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

: UN2991

: 3

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

Transport/Additional information : 40 - Stow "clear of living quarters"

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport document description : UN2991 CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, 6.1 (3), II

UN-No. (TDG)

Proper Shipping Name (Transportation of

Dangerous Goods)

: CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE

TDG Primary Hazard Classes : 6.1 - Class 6.1 - Toxic Substances

Packing group

TDG Subsidiary Classes

TDG Special Provisions

: II - Medium Danger

: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown,

in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of

containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900,

INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306

Explosive Limit and Limited Quantity Index Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Transport by sea

: UN2991, CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, (Oxamyl, Methanol), 6.1 (3), II, Transport document description (IMDG) (38.6°C c.c.) - Marine Pollutant

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UN-No. (IMDG) : 2991

Proper Shipping Name (IMDG) : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE

Class (IMDG) : 6.1 - Toxic substances

Packing group (IMDG) : II - substances presenting medium danger

Subsidiary risk (IMDG) : 3 - Flammable liquids

Air transport

Transport document description (IATA) : UN 2991 Carbamate pesticide, liquid, toxic, flammable,, 6.1, II

UN-No. (IATA) : 2991

Proper Shipping Name (IATA) : Carbamate pesticide, liquid, toxic, flammable,

Class (IATA) : 6.1 - Toxic Substances
Packing group (IATA) : II - Medium Danger
Subsidiary hazards (IATA) : 3 - Flammable liquids

SECTION 15: Regulatory information

15.1. US Federal regulations

VYPERA L

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:

oxam	/l	CAS-No. 23135-22-0	24%
Ozaiii	y i	CA3-NO. 23133-22-0	27/0

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

methanol	CAS-No. 67-56-1 10 – 30%	
oxamyl (23135-22-0)		
CERCLA RQ	100 lb	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 100lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form	

methanol (67-56-1)
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

FIFRA Labelling

EPA Registration Number 89167-92-89391

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.

FIFRA Pictogram	
FIFRA Signal Word	Danger
FIFRA Precautionary Statement	Call a doctor if you feel unwell. Keep out of reach of children.
FIFRA Human Health Hazards	Follow pesticide label.
FIFRA First Aid	Follow pesticide label.
FIFRA Environmental Hazards	Follow pesticide label.
FIFRA Physical Hazard	Follow pesticide label.

15.2. International regulations

CANADA

oxamyl (23135-22-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

propylene carbonate (108-32-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

VYPERA L

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 hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use. PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION: Causes moderate eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or frequent repeated skin contact while handling the material may cause allergic reaction in some individuals.

15.3. US State regulations



This product can expose you to methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
oxamyl(23135-22-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
methanol(67-56-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Full text of H-statements:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H350	May cause cancer.
H370	Causes damage to organs.

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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