

## Vastlan™

Version 1.0

Revision Date: 03/31/2022

SDS Number: 800080005428 Date of last issue: -

Date of first issue: 03/31/2022

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

#### SECTION 1. IDENTIFICATION

Product name

: Vastlan™

Manufacturer or supplier's details

**COMPANY IDENTIFICATION** 

Manufacturer/importer

CORTEVA AGRISCIENCE LLC

9330 ZIONSVILLE RD

INDIANAPOLIS, IN, 46268-1053

UNITED STATES

**Customer Information** 

Number

: 800-992-5994

E-mail address

: customerinformation@corteva.com

Emergency telephone

: INFOTRAC (CONTRACT 84224).

800-992-5994 or 317-337-6009

Recommended use of the chemical and restrictions on use

Recommended use

: End use herbicide product

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral)

: Category 4

Eye irritation

Category 2A

Skin sensitization

Specific target organ toxicity : Category 2

Sub-category 1B

- repeated exposure





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**GHS label elements** 

Hazard pictograms





Signal Word

: Warning

Hazard Statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or re-

peated exposure.

Precautionary Statements

Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water, P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	
Triclopyr, Choline salt	1048373-85-8	54.72	
Choline, hydroxide	123-41-1	>= 3 - < 10	
Glycerol	56-81-5	>= 1 - < 3	
Balance	Not Assigned	> 30	

Actual concentration is withheld as a trade secret





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**SECTION 4. FIRST AID MEASURES** 

If inhaled Move person to fresh air. If person is not breathing, call an

emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment

advice

In case of skin contact : Take off contaminated clothing. Wash skin with soap and

plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice.

Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of

properly

In case of eye contact : Hold eyes 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 eyes. Call a poison control

center or doctor for treatment advice.

Suitable emergency eye wash facility should be available in

work area.

None known.

If swallowed Call a poison control center or doctor immediately for treat-

ment advice. 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.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

Protection of first-aiders

: First Aid responders should pay attention to self-protection

and use the recommended protective clothing (chemical re-

sistant gloves, splash protection).

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : No specific antidote.

Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient.

Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or

doctor, or going for treatment.

**SECTION 5. FIRE-FIGHTING MEASURES** 

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health.

Do not allow run-off from firefighting to enter drains or water

courses.

Hazardous combustion prod- : -

ucts

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may

be toxic and/or irritating.





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Combustion products may include and are not limited to:

Nitrogen oxides (NOx)

Carbon oxides

Specific extinguishing meth-

Remove undamaged containers from fire area if it is safe to do

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Further information

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer-

gency procedures

Use personal protective equipment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions

If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g., by containment or

oil barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Prevent from entering into soil, ditches, sewers, underwater.

See Section 12, Ecological Information.

Methods and materials for containment and cleaning up Clean up remaining materials from spill with suitable absorb-

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can

be pumped,

Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

pressurization of the container.

Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

See Section 13, Disposal Considerations, for additional infor-

mation.





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#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Do not breathe vapors/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety

practice.

Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the ap-

plication area.

Do not get on skin or clothing. Avoid inhalation of vapor or mist.

Do not swallow. Do not get in eyes.

Avoid contact with skin and eyes.

Take care to prevent spills, waste and minimize release to the

environment

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage

Store in a closed container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep in properly labeled containers. Store in accordance with the particular national regulations.

Materials to avoid

Strong oxidizing agents

Packaging material

Unsuitable material: None known.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1

**Engineering measures** 

: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Local exhaust ventilation may be necessary for some opera-

# Personal protective equipment

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or



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guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Hand protection

Remarks

Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection

Skin and body protection

Use chemical goggles.

: Use protective clothing chemically resistant to this material.

Selection of specific items such as face shield, boots, apron,

or full body suit will depend on the task.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

Liquid.

Color

: Black

Odor

: Characteristic

Odor Threshold

: No data available

На

7.0 (68 °F / 20 °C)
Method: pH Electrode

Melting point/range

: Not applicable

Freezing point

No data available

Boiling point/boiling range

Flash point

: No data available

: > 212 °F / > 100 °C

Method: Pensky-Martens Closed Cup ASTM D 93, closed cup

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper explosion limit / Upper :

flammability limit

No data available



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Lower explosion limit / Lower : No data available

flammability limit

Vapor pressure

: No data available

Relative vapor density

: No data available

Density

1.235 g/cm3 (68 °F / 20 °C) Method: Digital density meter

Solubility(ies)

Water solubility

: No data available

Autoignition temperature

: No data available

Viscosity

Viscosity, dynamic

: No data available

Explosive properties

: No data available

Oxidizing properties

: No data available

# SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not classified as a reactivity hazard.

Chemical stability

No decomposition if stored and applied as directed.

Stable under normal conditions.

Possibility of hazardous reac- :

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

Conditions to avoid

Incompatible materials

: None known.

None. Decomposition products depend upon temperature, air supply

Hazardous decomposition products

and the presence of other materials.

Decomposition products can include and are not limited to:

Nitrogen oxides (NOx)

Carbon oxides

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Product:

Acute oral toxicity

: LD50 (Rat, female): 1,000 mg/kg

Method: OECD Test Guideline 423 Remarks: For similar material(s):

Acute inhalation toxicity

: LC50 (Rat, male and female): > 5.85 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Symptoms: No deaths occurred at this concentration.



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Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: For similar material(s):

Acute dermal toxicity

LD50 Dermal (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

Symptoms: No deaths occurred at this concentration.

Components:

Triclopyr, Choline salt:

Acute oral toxicity

LD50 (Rat, female): 577 - 630 mg/kg Remarks: For similar active ingredient(s).

LD50 (Rat, male): 692 - 729 mg/kg Remarks: For similar active ingredient(s).

Acute inhalation toxicity

Remarks: Prolonged excessive exposure to dust may cause

adverse effects.

Dust may cause irritation to upper respiratory tract (nose and

throat).

LC50 (Rat): > 2.6 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: For similar active ingredient(s).

Acute dermal toxicity

LD50 (Rat): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: For similar active ingredient(s).

Choline, hydroxide:

Acute oral toxicity

Remarks: Oral LD50 has not been determined due to corro-

sivity.

Glycerol:

Acute oral toxicity

LD50 (Rat): > 11,500 mg/kg

Remarks: Excessive exposure may cause:

Central nervous system effects. Observations in humans include: Altered blood sugar levels.

Acute inhalation toxicity

:\_ LC50 (Rat): > 2.75 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred following exposure to a satu-

rated atmosphere.

Assessment: The substance or mixture has no acute inhala-

tion toxicity



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Acute dermal toxicity

: LD50 (Guinea pig): >= 56,750 mg/kg

Skin corrosion/irritation

Product:

Species

Rabbit

Result

No skin irritation

Components:

Choline, hydroxide:

Result

Corrosive

Glycerol:

Result

: No skin irritation

Serious eye damage/eye irritation

Product:

Species

Rabbit

Result

Eye irritation

Components:

Triclopyr, Choline salt:

Result

: Eye irritation

Choline, hydroxide:

Result

: Corrosive

Glycerol:

Resuit

: No eye irritation

Respiratory or skin sensitization

Product:

Species

Mouse

Result

The product is a skin sensitizer, sub-category 1B.

Remarks

: For similar material(s):

Components:

Triclopyr, Choline salt:

Assessment

The product is a skin sensitizer, sub-category 1B.

Remarks

For similar active ingredient(s).

Prolonged or frequently repeated skin contact may cause

allergic skin reactions in some individuals.

With the dilute mix, no allergic skin reaction is expected.



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# Germ cell mutagenicity

## Components:

Glycerol:

Germ cell mutagenicity -

Assessment

: In vitro genetic toxicity studies were negative.

Carcinogenicity

Components:

Triclopyr, Choline salt:

Carcinogenicity - Assess-

ment

For similar active ingredient(s), Did not cause cancer in la-

boratory animals.

Glycerol:

Carcinogenicity - Assess-

ment

For the major component(s), Did not cause cancer in labora-

tory animals.

**IARC** 

No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** 

No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

# Reproductive toxicity

## Components:

Triclopyr, Choline salt:

Reproductive toxicity - As-

sessment

: For similar active ingredient(s)., In laboratory animal studies, effects on reproduction have been seen only at doses that

produced significant toxicity to the parent animals.

For similar active ingredient(s)., Did not cause birth defects or other effects in the fetus even at doses which caused toxic

effects in the mother.

Glycerol:

Reproductive toxicity - As-

sessment

: Reproductive effects seen in female animals are believed to be due to altered nutritional states resulting from extremely

high doses of glycerine given in the diet. Similar effects have been seen in animals fed synthetic diets.

Did not cause birth defects or any other fetal effects in labora-

tory animals.



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STOT-single exposure

**Product:** 

Assessment

: Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Components:

Triclopyr, Choline salt:

Assessment

Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Choline, hydroxide:

Assessment

: May cause respiratory irritation.

Glycerol:

Assessment

: Evaluation of available data suggests that this material is not

an STOT-SE toxicant

STOT-repeated exposure

Components:

Choline, hydroxide:

Assessment

May cause damage to organs through prolonged or repeated

exposure.

Repeated dose toxicity

Components:

Triclopyr, Choline salt:

Remarks

For similar active ingredient(s).

In animals, effects have been reported on the following or-

gans; Kidney, Liver,

Choline, hydroxide:

Remarks

No relevant data found.

Glyceroi:

Remarks

: Excessive exposure to glycerine may cause increased fat

levels in blood.

**Aspiration toxicity** 

**Product:** 

Based on physical properties, not likely to be an aspiration hazard.



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### Components:

## Triclopyr, Choline salt:

Based on physical properties, not likely to be an aspiration hazard.

### Choline, hydroxide:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

### Glycerol:

Based on physical properties, not likely to be an aspiration hazard.

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

### Components:

# Triclopyr, Choline salt:

Toxicity to fish

: Remarks: For similar active ingredient(s).

Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensi-

tive species tested).

LC50 (Oncorhynchus mykiss (rainbow trout)): 117 mg/l

Exposure time: 96 h

Remarks: For similar active ingredient(s).

Toxicity to daphnia and other

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 133 mg/l

Exposure time: 48 h

Remarks: For similar active ingredient(s).

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 87.7

mg/L

End point: Biomass Exposure time: 96 h

Remarks: For similar material(s):

## **Ecotoxicology Assessment**

Chronic aquatic toxicity

Harmful to aquatic life with long lasting effects.

# Glycerol:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): >= 885 mg/l

Exposure time: 96 h
Test Type: static test

Method: Method Not Specified.

Toxicity to daphnia and other

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l

Exposure time: 48 h Test Type: static test

Method: Method Not Specified.



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Toxicity to algae/aquatic

plants

EC50 (Other): 2,900 mg/l

End point: Growth inhibition (cell density reduction)

Exposure time: 192 h Test Type: static test

Method: Method Not Specified.

Toxicity to microorganisms

EC50 (activated sludge): > 1,000 mg/l

Exposure time: 3 h Method: OECD 209 Test

Persistence and degradability

Components:

Triclopyr, Choline salt:

Biodegradability

: Remarks: For similar active ingredient(s).

Biodegradation under aerobic static laboratory conditions is

high (BOD20 or BOD28/ThOD > 40%).

Glycerol:

Biodegradability

Result: Readily biodegradable.

Remarks: Material is readily biodegradable. Passes OECD

test(s) for ready biodegradability.

Biodegradation: 63 % Exposure time: 14 d

: 1:22 kg/kg

Method: OECD Test Guideline 301C or Equivalent

Remarks: 10-day Window: Not applicable

ThOD

Bioaccumulative potential

Components:

Triclopyr, Choline salt:

Partition coefficient; n-

octanol/water

: Remarks: For similar active ingredient(s).

Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Choline, hydroxide:

Partition coefficient: n-

: Remarks: No relevant data found.

octanol/water

Glycerol:

Partition coefficient: n-

octanol/water

: log Pow: -1.76 (68 °F / 20 °C)

Method: Measured

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

Balance:

Partition coefficient: n-

: Remarks: No relevant data found.



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octanol/water

Mobility in soil

Components:

Triclopyr, Choline salt:

Distribution among environmental compartments Remarks: For similar active ingredient(s).

Triclopyr

Potential for mobility in soil is very high (Koc between 0 and

50).

Choline, hydroxide:

Distribution among environmental compartments Remarks: No relevant data found.

Glycerol:

Distribution among environmental compartments Koc: 1

Method: Estimated.

Remarks: Potential for mobility in soil is very high (Koc be-

tween 0 and 50).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an im-

portant fate process.

Balance:

Distribution among environmental compartments : Remarks; No relevant data found.

Other adverse effects

Components:

Triclopyr, Choline salt:

Results of PBT and vPvB assessment

 This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential

Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Choline, hydroxide:

Results of PBT and vPvB assessment

This substance has not been assessed for persistence, bloac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential

Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Glycerol:

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is readily biodegrada-

ble and thus is not considered persistent or very persistent (P

or vP)...

Ozone-Depletion Potential

Remarks: This substance is not on the Montreal Protocol list



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of substances that deplete the ozone layer.

Balance:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential

Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all appli-

cable regional, national and local laws.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

**UNRTDG** 

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**Domestic regulation** 

49 CFR

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards

Acute toxicity (any route of exposure)

Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

Serious eye damage or eye irritation



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**SARA 313** 

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Glycerol 56-81-5

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

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

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 62719-687

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:

WARNING

May be fatal if swallowed.

Causes substantial but temporary eye injury

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### **SECTION 16. OTHER INFORMATION**

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of other abbreviations

OSHA Z-1 : USA, Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-1 / TWA 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely



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Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification 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; 1C50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; 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 Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity: SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory: TECI - Thailand Existing Chemicals Inventory: TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this 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.

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