VP480 Herbicide



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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 Canada and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name : VP480 Herbicide Other means of identification : No data available

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE CANADA COMPANY

#2450, 215 - 2ND STREET S.W.

CALGARY AB, T2P 1M4

CANADA

Customer Information

Number

: 800-667-3852

E-mail address : solutions@corteva.com

Emergency telephone

number

CANUTEC

1-888-226-8832

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 Hazardous Products Regulations

Eye irritation : Category 2B

Skin sensitisation : Sub-category 1B

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H320 Causes eye irritation.



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Precautionary statements : **Prevention**:

P261 Avoid breathing mist or vapours.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of 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.

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

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

tion.

P362 + P364 Take off contaminated clothing and wash it 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	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Glyphosate DMA Salt	Glyphosate DMA Salt	34494-04-7	50.2
Amines, tallow alkyl, ethoxylated	Amines, tallow alkyl, ethoxylated	61791-26-2	>= 3 - < 10 *
Betaines, C12-14 (even numbered)- alkyldimethyl	Betaines, C12- 14 (even num- bered)- alkyldimethyl	Not Assigned	>= 1 - < 3 *
Balance	Balance	Not Assigned	> 30

^{*} Actual concentration or concentration range is withheld as a trade secret

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.

Suitable emergency safety shower facility should be available

in work area.



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Hold eyes open and rinse slowly and gently with water for 15-In case of eye contact

> 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.

If swallowed

Most important symptoms and effects, both acute and

delayed

Protection of first-aiders

No emergency medical treatment necessary.

None known.

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. FIREFIGHTING 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 fire fighting to enter drains or water

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.

Combustion products may include and are not limited to:

Oxides of phosphorus Nitrogen oxides (NOx)

Carbon oxides

Specific extinguishing meth-

ods

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

SO

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

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

Collect contaminated fire extinguishing water separately. This Further information

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 firefighters

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.



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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 absorbant

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 overpressurization 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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Persons susceptible to skin sensitisation 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 vapours/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 application area.

Do not get on skin or clothing.

Avoid inhalation of vapour 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 labelled containers. Store in accordance with the particular national regulations.



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Materials to avoid : Do not store near acids.

Strong oxidizing agents

Packaging material : Unsuitable material: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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-

tions.

Personal protective equipment

Respiratory protection : Respiratory protection should be worn when there is a poten-

tial to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or 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 ap-

proved 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 instruc-

tions/specifications provided by the glove supplier.

Eye protection : Use chemical goggles.

Skin and body protection : 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.

Colour : Yellow

Odour : Amine.

Odour Threshold : No data available

pH : 4.59

Method: pH Electrode



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Melting point/range : Not applicable

Freezing point No data available

Boiling point/boiling range : No data available

Flash point : > 100 °C

Method: Setaflash Closed Cup ASTM D3828, closed cup

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.2114 g/cm3

Solubility(ies)

Water solubility : Soluble

Auto-ignition temperature : No data available

Viscosity

Viscosity, dynamic : 62.3 mPa,s (20 °C)

32.5 mPa,s (40 °C)

Explosive properties : No

Oxidizing properties : No significant increase (>5C) in temperature.

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.

Conditions to avoid : None known.

Incompatible materials : Acids

Oxidizing agents

Hazardous decomposition

products

Decomposition products depend upon temperature, air supply

and the presence of other materials.

Decomposition products can include and are not limited to:

Oxides of phosphorus Nitrogen oxides (NOx)

Carbon oxides

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

GLP: yes

Remarks: For similar material(s):

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.63 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration.

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: For similar material(s):

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

GLP: yes

Remarks: For similar material(s):

Components:

Glyphosate DMA Salt:

Acute oral toxicity : LD50 (Rat): > 4,000 mg/kg

Remarks: For similar active ingredient(s).

Acute inhalation toxicity : Remarks: Prolonged excessive exposure to dust may cause

adverse effects.

LC50 (Rat): > 1.9 mg/l Test atmosphere: dust/mist

Remarks: For similar active ingredient(s).

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Remarks: For similar active ingredient(s).

Amines, tallow alkyl, ethoxylated:

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Betaines, C12-14 (even numbered)-alkyldimethyl:

Acute oral toxicity : LD50 (Rat): 2,640 mg/kg

Method: OECD Test Guideline 401

Skin corrosion/irritation

Product:

Species : Rabbit

Result : No skin irritation

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Components:

Amines, tallow alkyl, ethoxylated:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Betaines, C12-14 (even numbered)-alkyldimethyl:

Species : Rabbit

Result : Causes burns.

Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : Mild eye irritation

Components:

Amines, tallow alkyl, ethoxylated:

Species : Rabbit Result : Corrosive

Betaines, C12-14 (even numbered)-alkyldimethyl:

Species : Rabbit Result : Corrosive

Respiratory or skin sensitisation

Product:

Species : Mouse

Result : The product is a skin sensitiser, sub-category 1B.

Remarks : For similar material(s):

Components:

Betaines, C12-14 (even numbered)-alkyldimethyl:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Glyphosate DMA Salt:

Germ cell mutagenicity - Assessment

: For similar active ingredient(s)., Glyphosate., In vitro genetic toxicity studies were negative., Animal genetic toxicity studies

were negative.

Betaines, C12-14 (even numbered)-alkyldimethyl:

Germ cell mutagenicity -

: In vitro genetic toxicity studies were negative.

Assessment



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Carcinogenicity

Components:

Glyphosate DMA Salt:

Carcinogenicity - Assess-

ment

For similar active ingredient(s)., Glyphosate., Did not cause cancer in laboratory animals., Weight of evidence evaluation of epidemiology studies supports no association between glyphosate exposure and cancer.

Reproductive toxicity

Components:

Glyphosate DMA Salt:

Reproductive toxicity - As-

sessment

For similar active ingredient(s)., Glyphosate., 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)., Glyphosate., Has been toxic to the fetus in laboratory animals at doses toxic to the mother.,

Did not cause birth defects in laboratory animals.

Betaines, C12-14 (even numbered)-alkyldimethyl:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction., In ani-

mal studies, did not interfere with fertility.

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

tory animals.

STOT - single exposure

Product:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Components:

Glyphosate DMA Salt:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Amines, tallow alkyl, ethoxylated:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

Betaines, C12-14 (even numbered)-alkyldimethyl:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Repeated dose toxicity

Components:

Glyphosate DMA Salt:

Remarks : For similar active ingredient(s).

Glyphosate.

Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.



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Aspiration toxicity

Product:

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

Components:

Glyphosate DMA Salt:

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

Amines, tallow alkyl, ethoxylated:

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

Betaines, C12-14 (even numbered)-alkyldimethyl:

Based on available information, aspiration hazard could not be determined.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 11 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203 or Equivalent

Remarks: For similar material(s):

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 17 mg/l

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 2.1

mg/l

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 996.6 mg/kg

Exposure time: 14 d End point: survival

Remarks: Based on information for a similar material:

Toxicity to terrestrial organ-

isms

oral LD50 (Coturnix japonica (Japanese quail)): > 2250 mg/kg

bodyweight.

Remarks: Based on information for a similar material:

oral LD50 (Apis mellifera (bees)): > 250 µg/bee

Exposure time: 48 h

Remarks: Based on information for a similar material:

contact LD50 (Apis mellifera (bees)): > 250 µg/bee

Exposure time: 48 h

Remarks: Based on information for a similar material:



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Components:

Glyphosate DMA Salt:

Toxicity to fish : Remarks: For similar active ingredient(s).

Glyphosate.

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)): 38 mg/l

Exposure time: 96 h

Remarks: For similar material(s):

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna): 40 mg/l

Exposure time: 48 h

Remarks: For similar active ingredient(s).

Toxicity to algae/aquatic

plants

ErC50 (Lemna gibba): 12 mg/l

End point: Growth rate inhibition

Exposure time: 14 d

Remarks: For similar material(s):

ErC50 (Pseudokirchneriella subcapitata (green algae)): 19

mg/l

End point: Growth rate inhibition

Exposure time: 72 h

Remarks: For similar material(s):

ErC50 (Skeletonema costatum (marine diatom)): 18 mg/l

Exposure time: 72 h

Remarks: For similar material(s):

Toxicity to terrestrial organ-

isms

Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is slightly toxic to birds

on a dietary basis (LC50 between 1001 and 5000 ppm).

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Amines, tallow alkyl, ethoxylated:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Betaines, C12-14 (even numbered)-alkyldimethyl:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4.44 mg/l

Exposure time: 96 h Test Type: Static

Method: OECD Test Guideline 203

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Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 7.76 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.7

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.38

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 2.99 mg/l

Exposure time: 21 d

Test Type: semi-static test

Method: OECD Test Guideline 211

Persistence and degradability

Components:

Glyphosate DMA Salt:

Biodegradability : Result: Not readily biodegradable.

Remarks: For similar active ingredient(s).

Glyphosate.

Biodegradation may occur under aerobic conditions (in the

presence of oxygen).

Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegra-

dability.

Amines, tallow alkyl, ethoxylated:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 70 % Exposure time: 28 d

Method: OECD Test Guideline 302B or Equivalent

Betaines, C12-14 (even numbered)-alkyldimethyl:

Biodegradability : Inoculum: activated sludge

Concentration: 78.3 mg/l Result: Readily biodegradable. Biodegradation: 63 - 79 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

Glyphosate DMA Salt:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): < 1 Remarks: Bioaccumulation is unlikely.



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Partition coefficient: n-

octanol/water

: Remarks: For similar active ingredient(s).

Glyphosate.

Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Potential for mobility in soil is slight (Koc between 2000 and

5000).

Remarks: For similar active ingredient(s).

Glyphosate.

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

Amines, tallow alkyl, ethoxylated:

Partition coefficient: n-

octanol/water

: Remarks: No data available for this product.

log Pow: 5.89 Method: estimated

Remarks: Bioconcentration potential is high (BCF > 3000 or

Log Pow between 5 and 7).

Betaines, C12-14 (even numbered)-alkyldimethyl:

Partition coefficient: n-

octanol/water

Remarks: No relevant data found.

Balance:

Partition coefficient: n-

octanol/water

Remarks: No relevant data found.

Mobility in soil

Components:

Glyphosate DMA Salt:

Distribution among environ-

mental compartments

Remarks: For similar active ingredient(s).

Glyphosate.

Expected to be relatively immobile in soil (Koc > 5000).

Balance:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

Other adverse effects

Components:

Glyphosate DMA Salt:Results of PBT and vPvB

assessment

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

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Amines, tallow alkyl, ethoxylated:

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.

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Betaines, C12-14 (even numbered)-alkyldimethyl:

Results of PBT and vPvB

assessment

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

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

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 regu-

lations.

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

cable regional, national and local laws.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Glyphosate DMA Salt)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Glyphosate DMA Salt)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen- :

ger aircraft)

964

964

IMDG-Code

14 / 17



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UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Glyphosate DMA Salt)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Remarks : Stowage category A

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

Not applicable for product as supplied.

National Regulations

TDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Glyphosate DMA Salt)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171

Marine pollutant : yes(Glyphosate DMA Salt)

Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

DSL : This product contains components that are not listed on the

Canadian DSL nor NDSL.

Pest Control Products Act (PCPA) Registration Number : 28840

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. These requirements differ from the



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classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

PCPA Label Hazard Communications:

Read the label and booklet before using. Keep out of reach of children.

CAUTION EYE AND SKIN IRRITANT POTENTIAL SKIN SENSITIZER

This product is toxic to: Aquatic organisms Non-target terrestrial plants

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

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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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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