

AXIAL BOLD HERBICIDE

Version Revision Date: 1.0 03/08/2023

Date: SDS Number: 23 S00066621708 This version replaces all previous versions.

SECTION 1. IDENTIFICATION

Product name : AXIAL BOLD HERBICIDE

Design code. : A21996E

Product Registration number : 100-1632

Manufacturer or supplier's details

Company name of supplier : Syngenta Crop Protection, LLC

Address : Post Office Box 18300 Greensboro NC 27419

United States of America (USA)

Telephone : 1 800 334 9481 Telefax : 1 336 632 2192

E-mail address : sds.requests@syngenta.com

Emergency telephone : 1 800 888 8372

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

Restrictions on use : General Use Pesticide

SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 4

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2B

Skin sensitization : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity

- repeated exposure

Category 2 (Kidney, Urinary system, Liver)

Aspiration hazard : Category 1

GHS label elements



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Hazard pictograms





Signal Word : Danger

Hazard Statements : H227 Combustible liquid.

H304 May be fatal if swallowed and enters airways.

H315 + H320 Causes skin and eye irritation. H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H360Df May damage the unborn child. Suspected of damaging

fertility.

H373 May cause damage to organs (Kidney, Urinary system,

Liver) through prolonged or repeated exposure.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

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

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P260 Do not breathe mist or vapors.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

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

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

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

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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



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P405 Store locked up.

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)
solvent naphtha (petroleum), highly	64742-94-5	>= 20 - < 30
arom.		
(tetrahydro-furan-2-yl)-methanol	97-99-4	>= 10 - < 20
pinoxaden	243973-20-8	5.509
fenoxaprop-P-ethyl	71283-80-2	2.7544
benzenesulfonic acid, C10-13-alkyl	1335202-81-7	>= 1 - < 5
derivs., calcium salts		
cloquintocet-mexyl	99607-70-2	>= 1 - < 5
naphthalene	91-20-3	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled Take the victim into fresh air.

If breathing is irregular or stopped, administer artificial

respiration.

Keep patient warm and at rest.

Call a physician or poison control center immediately.

Take off all contaminated clothing immediately. In case of skin contact

Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Rinse immediately with plenty of water, also under the eyelids, In case of eye contact

> for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed If swallowed, seek medical advice immediately and show this

container or label.

Do not induce vomiting: contains petroleum distillates and/or

aromatic solvents.

Most important symptoms and effects, both acute and

Aspiration may cause pulmonary edema and pneumonitis.

delayed

Notes to physician There is no specific antidote available.

Treat symptomatically.



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Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire

Specific hazards during fire

fighting

As the product contains combustible organic ingredients, fire

will produce dense black smoke containing hazardous

products of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

Flash back possible over considerable distance.

Further information : Do not allow run-off from fire fighting to enter drains or water

courses.

Cool closed containers exposed to fire with water spray.

Special protective equipment:

for fire-fighters

Wear full protective clothing and self-contained breathing

apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Refer to protective measures listed in sections 7 and 8.

Keep people away from and upwind of spill/leak. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Remove all sources of ignition. Pay attention to flashback.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth,

vermiculite) and place in container for disposal according to

local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

Use only in an area containing flame proof equipment. Take precautionary measures against static discharges.

For personal protection see section 8.

Conditions for safe storage : Keep containers tightly close

Keep containers tightly closed in a dry, cool and well-



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ventilated place.

Keep out of the reach of children. Keep away from combustible material. Keep in an area equipped with sprinklers.

Keep away from food, drink and animal feedingstuffs.

No smoking.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
solvent naphtha (petroleum), highly arom.	64742-94-5	TWA	8 ppm Supplier 50 mg/m3	
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
(tetrahydro-furan-2-yl)- methanol	97-99-4	TWA	0.5 ppm	US WEEL
pinoxaden	243973-20-8	TLV-C	0.1 mg/m3	Syngenta
cloquintocet-mexyl	99607-70-2	TWA	1 mg/m3	Syngenta
naphthalene	91-20-3	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	NIOSH REL
		ST	15 ppm 75 mg/m3	NIOSH REL
		TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm 50 mg/m3	OSHA P0
		STEL	15 ppm 75 mg/m3	OSHA P0

Engineering measures

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the

actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Respiratory protection

Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and



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use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

Remarks : Wear protective gloves. The choice of an appropriate glove

does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Eye protection : Tightly fitting safety goggles

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate: Impervious clothing

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek

appropriate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : beige brown

Odor : aromatic

No data available

Odor Threshold : No data available

pH : 3-7

Concentration: 1 %w/v

Melting point/range : No data available

Boiling point/boiling range : No data available



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Flash point :

Method: Pensky-Martens closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

183 °F / 84 °C

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : 0.9936 g/cm3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : 554 °F / 290 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 1.4 mPa.s (68 °F / 20 °C)

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.
Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : No decomposition if used as directed. Incompatible materials : None known.

Hazardous decomposition

products

None known.

No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion Inhalation Skin contact Eye contact

Acute toxicity

Product:

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

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male): Calculated 2.59 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

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

Remarks: Based on data from similar materials

Components:

pinoxaden:

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

Acute inhalation toxicity : LC50 (Rat, male): 4.63 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

fenoxaprop-P-ethyl:

Acute oral toxicity : LD50 (Rat): 3,150 - 4,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.223 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Assessment: The substance or mixture has no acute dermal

toxicity

benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Acute oral toxicity : LD50 (Rat): 4,445 mg/kg

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



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Assessment: The substance or mixture has no acute dermal

toxicity

cloquintocet-mexyl:

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

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.935 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Remarks: Highest attainable concentration

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

naphthalene:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Skin corrosion/irritation

Product:

Species : Rabbit

Result : Irritating to skin.

Remarks : Based on data from similar materials

Components:

pinoxaden:

Method : Based on Human Evidence

Result : Irritating to skin.

fenoxaprop-P-ethyl:

Species : Rabbit

Result : No skin irritation

benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Species : Rabbit

Result : Irritating to skin.

cloquintocet-mexyl:

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit



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Result Irritation to eyes, reversing within 7 days Remarks Based on data from similar materials

Components:

(tetrahydro-furan-2-yl)-methanol:

Result Eye irritation

pinoxaden:

Species Rabbit

Result Irritation to eyes, reversing within 21 days

fenoxaprop-P-ethyl:

Species Rabbit

Result No eye irritation

benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Species Rabbit

Result Risk of serious damage to eyes.

cloquintocet-mexyl:

Species Rabbit

No eye irritation Result

Respiratory or skin sensitization

Product:

Species Guinea pig

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

Components:

pinoxaden:

Test Type mouse lymphoma cells

Species Mouse

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

Test Type Respiratory sensitization

Result Does not cause respiratory sensitization. Remarks Experience with human exposure

fenoxaprop-P-ethyl:

Species Guinea pig

Result May cause sensitization by skin contact.

cloquintocet-mexyl:

Species Guinea pig

Result May cause sensitization by skin contact.



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Germ cell mutagenicity

Components:

pinoxaden:

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

fenoxaprop-P-ethyl:

Germ cell mutagenicity -

Assessment

In vitro tests did not show mutagenic effects, In vivo tests did

not show mutagenic effects

cloquintocet-mexyl:

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

pinoxaden:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

fenoxaprop-P-ethyl:

Carcinogenicity - Assess-

ment

Animal testing did not show any carcinogenic effects.

cloquintocet-mexyl:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

Limited evidence of carcinogenicity in animal studies

naphthalene:

Carcinogenicity - Assess-

ment

IARC Group 2B: Possibly carcinogenic to humans

naphthalene 91-20-3

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP Reasonably anticipated to be a human carcinogen

naphthalene 91-20-3

Reproductive toxicity

Components:

(tetrahydro-furan-2-yl)-methanol: Reproductive toxicity - As- : 0

sessment

: Clear evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on

sexual function and fertility, based on animal experiments.

pinoxaden:

Reproductive toxicity - As- : No toxicity to reproduction



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sessment

fenoxaprop-P-ethyl:

Reproductive toxicity - Assessment

No toxicity to reproduction

cloquintocet-mexyl:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

STOT-single exposure

Components:

pinoxaden:

Based on Human Evidence, The substance or mixture is clas-Assessment

sified as specific target organ toxicant, single exposure, cate-

gory 3 with respiratory tract irritation.

Remarks Breathing difficulties

Cough

Acute irritation of the respiratory system leading to tightness of

the chest and an asthmatic condition.

cloquintocet-mexyl:

Assessment The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT-repeated exposure

Components:

pinoxaden:

Assessment The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

fenoxaprop-P-ethyl:

Target Organs Kidney

Assessment The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

cloquintocet-mexyl:

Target Organs Urinary system, Liver

Assessment The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

Aspiration toxicity

Components:

solvent naphtha (petroleum), highly arom.:

May be fatal if swallowed and enters airways.



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

solvent naphtha (petroleum), highly arom.:

Ecotoxicology Assessment

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

pinoxaden:

LC50 (Oncorhynchus mykiss (rainbow trout)): 10.3 mg/l Toxicity to fish

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 52 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 3.6

Exposure time: 72 h

ErC50 (Skeletonema costatum (marine diatom)): 1.72 mg/l

Exposure time: 72 h

NOEC (Skeletonema costatum (marine diatom)): 0.94 mg/l

End point: Growth rate Exposure time: 96 h

NOEC (Lemna gibba (gibbous duckweed)): 0.73 mg/l

End point: Growth rate Exposure time: 7 d

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 6.6 mg/l

Exposure time: 28 d

fenoxaprop-P-ethyl:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0.39 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.19 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1.06 mg/l

Exposure time: 48 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.036 mg/l

Exposure time: 21 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

Toxicity to microorganisms

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.22 mg/l

Exposure time: 21 d

EC50 (activated sludge): > 1.0 mg/l

Exposure time: 3 h



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benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Toxicity to fish : LC50 (Fish): > 1 - < 10 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 29

mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.5

mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l

Exposure time: 72 d

Remarks: Based on data from similar materials

Toxicity to daphnia and other : aquatic invertebrates (Chron-

aquatic inveric toxicity)

NOEC (Daphnia magna (Water flea)): 1.18 mg/l Exposure time: 21 d

Remarks: Based on data from similar materials

cloquintocet-mexyl:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.97 mg/l

Exposure time: 96 h

LC50 (Gobiocypris rarus (rare gudgeon)): 0.102 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0.82 mg/l

Exposure time: 48 h

Toxicity to algae/aguatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): > 2.2 mg/l

Exposure time: 72 h

NOEC (Desmodesmus subspicatus (green algae)): 0.12 mg/l

End point: Growth rate Exposure time: 72 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

NOEC (Daphnia): > 0.437 mg/l

Exposure time: 21 d

ic toxicity)
Toxicity to microorganisms

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

Exposure time: 3 h

naphthalene:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.



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Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

pinoxaden:

Biodegradability : Result: rapidly degradable

Stability in water : Degradation half life: 0.3 d

Remarks: Product is not persistent.

benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Biodegradability : Result: Readily biodegradable.

cloquintocet-mexyl:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 0.4 d

Remarks: Product is not persistent.

Bioaccumulative potential

Components:

pinoxaden:

Bioaccumulation : Remarks: Low bioaccumulation potential.

fenoxaprop-P-ethyl:

Bioaccumulation : Bioconcentration factor (BCF): 280 - 338

Remarks: Can accumulate in aquatic organisms.

cloquintocet-mexyl:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 5.24 (77 °F / 25 °C)

Mobility in soil

Components:

pinoxaden:

Distribution among environ-

mental compartments

: Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 0.1 - 1.8 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

cloquintocet-mexyl:

Distribution among environ-

mental compartments

Remarks: immobile



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Stability in soil : Dissipation time: 2.4 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

Other adverse effects

Components:

pinoxaden:

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).

cloquintocet-mexyl:

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).

naphthalene:

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).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with

chemical or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or

incineration.

If recycling is not practicable, dispose of in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Triple rinse containers.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FENOXAPROP-P-ETHYL, SOLVENT NAPHTHA)

Class : 9
Packing group : III
Labels : 9

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UN/ID No. UN 3082

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

(FENOXAPROP-P-ETHYL, SOLVENT NAPHTHA)

Class Packing group Ш

Miscellaneous Labels

Packing instruction (cargo 964

aircraft)

Packing instruction (passen-

ger aircraft)

Environmentally hazardous yes

IMDG-Code

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

964

(FENOXAPROP-P-ETHYL, SOLVENT NAPHTHA)

Class 9 Ш Packing group Labels 9 **EmS Code** F-A, S-F Marine pollutant ves

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

UN/ID/NA number NA 1993

Proper shipping name Compounds, weed killing, liquid

(SOLVENT NAPHTHA, TETRAHYDROFURFURYL

ALCOHOL)

Class 3 Packing group Ш

FLAMMABLE LIQUID Labels

ERG Code 128

yes(FENOXAPROP-P-ETHYL) Marine pollutant

Above applies only to containers over 119 gallons or 450 Remarks

liters. Not regulated if shipped in packages less than or equal

to 119 gallons (450 liters).

Special precautions for user

Above applies only to containers over 119 gallons or 450 Remarks

liters. Not regulated if shipped in packages less than or equal

to 119 gallons (450 liters).

49CFR: no dangerous good in non-bulk packaging

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

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 classi-



Version Revision Date: SDS Number: This version replaces all previous versions. 1.0 03/08/2023 S00066621708

fication 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

Causes skin irritation.

Harmful if swallowed.

Causes moderate eye irritation.

Harmful if inhaled.

Do not get on skin or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before re-use.

Avoid contact with eyes or clothing.

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ Calculated product R	
		(lbs)	(lbs)
naphthalene	91-20-3	100	44503

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Respiratory or skin sensitization

Carcinogenicity
Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

naphthalene 91-20-3 >= 0.1 - < 1 %

California Prop. 65

WARNING: This product can expose you to chemicals including naphthalene, 2,2'-iminodiethanol, which is/are known to the State of California to cause cancer, and

toluene, 1-methyl-2-pyrrolidone, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Further information



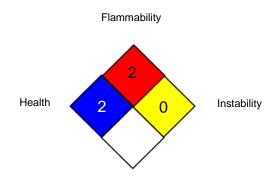
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NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

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

its for Air Contaminants

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average OSHA P0 / STEL : Short-term exposure limit OSHA Z-1 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

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 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; 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 Pre-



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vention 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

Revision Date : 03/08/2023

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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