

# **AXIAL STAR**

Version **Revision Date:** SDS Number: This version replaces all previous versions. S1433718644 2.0

04/15/2021

### **SECTION 1. IDENTIFICATION**

: AXIAL STAR Product name

Design code. : A17712C

Product Registration number : 100-1389

Manufacturer or supplier's details

Company name of supplier Syngenta Crop Protection, LLC

Post Office Box 18300 Address Greensboro NC 27419

United States of America (USA)

Telephone 1 800 334 9481

Telefax 1 336 632 2192

Emergency telephone 1 800 888 8372

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

## **SECTION 2. HAZARDS IDENTIFICATION**

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

Flammable liquids Category 4

Skin irritation Category 2

Eye irritation Category 2A

Skin sensitization Category 1

Reproductive toxicity Category 1B

Specific target organ toxicity

- repeated exposure

Category 2 (Urinary system, Liver)

Aspiration hazard Category 1

**GHS** label elements

Hazard pictograms





Signal Word Danger

**Hazard Statements** H227 Combustible liquid.



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H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H360Df May damage the unborn child. Suspected of damaging

fertility.

H373 May cause damage to organs (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 dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

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.

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/ attention.

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. P405 Store locked up.

## Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture



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### 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
fluroxypyr-meptyl	81406-37-3	12.3431
2-methyl-naphthalene	91-57-6	>= 5 - < 10
1-methyl-naphthalene	90-12-0	>= 5 - < 10
pinoxaden	243973-20-8	4.902
calcium dodecylbenzene sulphonate	26264-06-2	>= 1 - < 5
cloquintocet-mexyl	99607-70-2	>= 1 - < 5
2-ethylhexan-1-ol	104-76-7	>= 1 - < 5

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.

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

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

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

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

delayed

Aspiration may cause pulmonary edema and pneumonitis.

Notes to physician : There is no specific antidote available.

Treat symptomatically.

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.



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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 emergency 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 closed in a dry, cool and well-

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   Control parame-   Basis
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		(Form of exposure)	ters / Permissible concentration	
		exposure)	Concentration	
solvent naphtha (petroleum), highly arom.	64742-94-5	TWA	8 ppm 50 mg/m3	Supplier
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
(tetrahydro-furan-2-yl)- methanol	97-99-4	TWA	0.5 ppm	US WEEL
fluroxypyr-meptyl	81406-37-3	TWA	10 mg/m3	Supplier
2-methyl-naphthalene	91-57-6	TWA	0.5 ppm	ACGIH
1-methyl-naphthalene	90-12-0	TWA	0.5 ppm	ACGIH
pinoxaden	243973-20-8	TLV-C	0.1 mg/m3	Syngenta
cloquintocet-mexyl	99607-70-2	TWA	5 mg/m3	Syngenta

### **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 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



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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 : No data available

Odor : aromatic

Odor Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 183 °F / 84 °C

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

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : 1.02 g/cm3 (77 °F / 25 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available



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Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : 554 °F / 290 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

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

No hazardous decomposition products are known.

## **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

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.54 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The component/mixture is minimally toxic after

short term inhalation.

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

**Components:** 

fluroxypyr-meptyl:

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



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Acute inhalation toxicity : LC50 (Rat, male and female): > 1.16 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Highest attainable concentration

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

Assessment: The substance or mixture has no acute dermal

toxicity

2-methyl-naphthalene:

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

single ingestion.

1-methyl-naphthalene:

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

single ingestion.

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

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

2-ethylhexan-1-ol:

Acute oral toxicity : LD50 (Rat): 2,047 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0.89 - 5.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The component/mixture is moderately toxic after



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short term inhalation.

Skin corrosion/irritation

**Product:** 

Species : Rabbit

Result : Irritating to skin.

**Components:** 

fluroxypyr-meptyl:

Result : No skin irritation

pinoxaden:

Method : Based on Human Evidence

Result : Irritating to skin.

calcium dodecylbenzene sulphonate:

Result : Irritating to skin.

cloquintocet-mexyl:

Species : Rabbit

Result : No skin irritation

2-ethylhexan-1-ol:

Species : Rabbit

Result : Irritating to skin.

Serious eye damage/eye irritation

**Product:** 

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

**Components:** 

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

Result : Eye irritation

fluroxypyr-meptyl:

Result : No eye irritation

pinoxaden:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

calcium dodecylbenzene sulphonate:

Result : Risk of serious damage to eyes.



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cloquintocet-mexyl:

Species : Rabbit

Result : No eye irritation

2-ethylhexan-1-ol:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

**Product:** 

Test Type : Buehler Test Species : Guinea pig

Result : May cause sensitization by skin contact.

**Components:** 

fluroxypyr-meptyl:

Result : Did not cause sensitization on laboratory animals.

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

cloquintocet-mexyl:

Species : Guinea pig

Result : May cause sensitization by skin contact.

Germ cell mutagenicity

**Components:** 

fluroxypyr-meptyl:

Germ cell mutagenicity -

Animal testing did not show any mutagenic effects.

Assessment

pinoxaden:

Germ cell mutagenicity -

Animal testing did not show any mutagenic effects.

Assessment

cloquintocet-mexyl:

Germ cell mutagenicity - :

Assessment

Animal testing did not show any mutagenic effects.



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Carcinogenicity

Components:

fluroxypyr-meptyl:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

pinoxaden:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

cloquintocet-mexyl:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

Reproductive toxicity

**Components:** 

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

Reproductive toxicity - As-

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.

fluroxypyr-meptyl:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

pinoxaden:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

cloquintocet-mexyl:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

STOT-single exposure

**Components:** 

fluroxypyr-meptyl:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

pinoxaden:

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

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



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organ toxicant, single exposure.

2-ethylhexan-1-ol:

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with respiratory tract

irritation.

STOT-repeated exposure

Components:

fluroxypyr-meptyl:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

pinoxaden:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

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.

1-methyl-naphthalene:

May be fatal if swallowed and enters airways.

**SECTION 12. ECOLOGICAL INFORMATION** 

**Ecotoxicity** 

**Components:** 

solvent naphtha (petroleum), highly arom.:

**Ecotoxicology Assessment** 

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

fluroxypyr-meptyl:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.225 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 0.183 mg/l



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aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic

plants

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

1.1410 mg/l

Exposure time: 72 h

ErC50 (Myriophyllum spicatum (Eurasian watermilfoil)): 0.075

mg/l

Exposure time: 14 d

NOEC (Myriophyllum spicatum (Eurasian watermilfoil)): 0.031

mg/l

Exposure time: 14 d

M-Factor (Acute aquatic tox-

icity)

Toxicity to fish (Chronic tox-

icity)

M-Factor (Chronic aquatic

toxicity)

10

1

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.32 mg/l

pinoxaden:

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

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)): 41

mg/l

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

calcium dodecylbenzene sulphonate:

**Ecotoxicology Assessment** 

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

cloquintocet-mexyl:

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

Exposure time: 96 h



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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/aquatic

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-

ic toxicity)

NOEC (Daphnia): > 0.437 mg/l

Exposure time: 21 d

Toxicity to microorganisms

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

Exposure time: 3 h

2-ethylhexan-1-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17.1 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 39 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 16.6 mg/l

Exposure time: 72 h

### Persistence and degradability

## **Components:**

fluroxypyr-meptyl:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 454 d

Remarks: Persistent in water.

pinoxaden:

Biodegradability : Result: rapidly degradable

Stability in water : Degradation half life: 0.3 d

Remarks: Product is not persistent.

cloquintocet-mexyl:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 0.4 d

Remarks: Product is not persistent.

### 2-ethylhexan-1-ol:



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Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential** 

**Components:** 

fluroxypyr-meptyl:

Bioaccumulation : Remarks: Does not bioaccumulate.

pinoxaden:

Bioaccumulation : Remarks: Low bioaccumulation potential.

cloquintocet-mexyl:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 5.24 (77 °F / 25 °C)

Mobility in soil

Components:

fluroxypyr-meptyl:

Distribution among environ-

mental compartments

Remarks: immobile

pinoxaden:

Distribution among environ-

mental compartments

Stability in soil

Remarks: Moderately mobile in soils

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

: Dissipation time: 2.4 d

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

Other adverse effects

Components:

Stability in soil

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, bioaccumu-

lating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).



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2-ethylhexan-1-ol:

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.

(FLUROXYPYR-MEPTYL AND SOLVENT NAPHTHA)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082

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

(FLUROXYPYR-MEPTYL AND SOLVENT NAPHTHA)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen: 964

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

964

(FLUROXYPYR-MEPTYL AND SOLVENT NAPHTHA)

Class : 9
Packing group : III
Labels : 9



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EmS Code : F-A, S-F Marine pollutant : yes

### 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 : Combustible liquid, n.o.s.

(SOLVENT NAPHTHA AND 2-ETHYLHEXAN-1-OL)

Class : CBL
Packing group : III
Labels : NONE
ERG Code : 128
Marine pollutant : no

Remarks : Above applies only to containers over 119 gallons or 450

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

to 119 gallons (450 liters).

### 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**

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: Caution

Contains petroleum distillate.

Causes moderate eve irritation.

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

Wear long-sleeved shirt and long pants, socks, shoes, and gloves.

Wear protective eyewear.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing.

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
toluene	108-88-3	100	100 (F005)
calcium dodecylbenzene sulpho- nate	26264-06-2	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

### 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)



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Respiratory or skin sensitization

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Skin corrosion or irritation

Serious eye damage or eye irritation

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.

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

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

### **TSCA list**

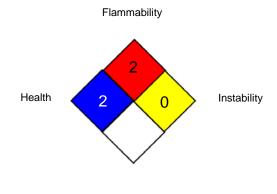
The following substance(s) is/are subject to a Significant New Use Rule: cloquintocet-mexyl 99607-70-2

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: cloquintocet-mexyl 99607-70-2

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

#### **Further information**

### 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)

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

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

US WEEL / TWA : 8-hr TWA



**AXIAL STAR** 

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AllC - 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 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; 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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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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