



Glodiac®

syngenta®

Emulsifiable concentrate containing 55 g/l pinoxaden and 13.75 g/l cloquintocet-mexyl.
Controls wild oats and ryegrasses in winter and spring wheat and winter and spring barley.
In case of toxic or transport emergency ring +44 (0)1484 538444 any time.

GROUP 1 HERBICIDE

SHAKE WELL BEFORE USE.
PROTECT FROM FROST.



FOR PROFESSIONAL USE ONLY

To avoid risks to human health and the environment, comply with the instructions for use.

GLODIAC is an emulsifiable concentrate containing 55 g/l pinoxaden and 13.75 g/l cloquintocet-mexyl.

Warning

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of damaging the unborn child.

Toxic to aquatic life with long lasting effects.

Obtain special instructions before use.

Avoid breathing mist or vapours.

Wash skin thoroughly after handling.

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

IF exposed or concerned: Get medical advice/ attention.

Collect spillage.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.



PCS: 07024

UF: C1F4-60JU-C00M-R5VC

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L1097859 IREL/11A PPE 4173616

Authorisation holder

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3 litres

Product names marked ® or ™, the ALLIANCE FRAME
the SYNGENTA Logo and the PURPOSE ICON
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IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

Crop	Max individual dose (L/ha)	Max no. of applications	Max total dose (L/ha)	Latest time of application
Winter and spring wheat, Spring and Winter Barley	0.82	-	0.82	Before flag leaf sheath extending stage (GS41)

To avoid the build up of resistance do not apply products containing an ACCase inhibitor herbicide more than twice to any crop. In addition, do not use this product in mixture or sequence with any other product containing pinoxaden.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

SAFETY PRECAUTIONS**(a) Operator protections**

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental Protection

Do not contaminate water with the product or its container.

Do not clean application equipment near surface water/avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

EMPTY CONTAINER COMPLETELY and dispose of safely.

This leaflet is part of the approved Product Label.

PROPERTIES OF GLODIAC

GLODIAC is a foliar acting grass-weed killer for the control of wild oats, Italian rye-grass and perennial rye-grass (from seed) in winter and spring wheat and winter and spring barley. It is an ACCase inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group 1'.

RESTRICTIONS

To avoid the build up of resistance do not apply products containing an ACCase inhibitor herbicide more than twice to any crop. In addition, do not use this product in mixture or sequence with any other product containing pinoxaden.

Do not use on oats.

Do not spray crops under stress or to crops suffering from waterlogging, pest attack, disease or frost.

Do not spray crops undersown with grass mixtures.

Rain within one hour after application may reduce grass-weed control.

Do not allow spray to drift onto neighbouring crops of oats, ryegrass or maize.

Avoid the use of hormone-containing herbicides in mixture or sequence with GLODIAC. When GLODIAC is applied first, leave 7 days before applying hormone herbicides. If hormone-containing products are applied first, leave 21 days before GLODIAC is applied.

GENERAL INFORMATION

GLODIAC is a foliar acting grass-weed killer for the control of wild oats, Italian rye-grass and perennial rye-grass (from seed) in winter and spring wheat and winter and spring barley. It is an ACCase inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group 1'.

WEEDS CONTROLLED

GLODIAC controls wild oats, Italian rye-grass and perennial rye-grass (from seed) in winter and spring wheat and winter and spring barley.

RESISTANCE MANAGEMENT

This product contains pinoxaden which is an ACCase inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group 1'.

Use only as part of a resistance management strategy that includes cultural methods of control and does not use ACCase inhibitors as the sole chemical method of grass-weed control.

Applying a second product containing an ACCase inhibitor to a crop will increase the risk of resistance development; only use a second ACCase inhibitor to control different weeds at a different timing. Strains of some annual grasses (e.g. black-grass, wild-oats, and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from AHDB, CPA, your distributor, crop advisor or product manufacturer.

Key aspects of the GLODIAC resistance management strategy are:

- Always follow WRAG guidelines for preventing and managing herbicide resistant grass weeds.
- Do not use GLODIAC or any other ACCase inhibitor as the sole means of grass weed control in successive crops.
- Use grassweed herbicides with different modes of action throughout the cropping rotation.
- To reduce the risk of developing resistance, applications should be made to young, actively growing weeds.
- Use tank/product mixes or sequences of herbicides with different modes of action within individual crops, or successive crops.
- Monitor weed control effectiveness and investigate any odd patches of poor grass weed control. If unexplained, contact your agronomist who may consider a resistance test appropriate.
- Use crop rotation and other cultural control measures to prevent and manage herbicide resistant grass weeds.
- Only apply GLODIAC once per crop.

GLODIAC has no residual activity. Optimum weed control will only be achieved when all grass weeds have emerged.

The activity of GLODIAC is not affected by soil type, organic matter or straw residues.

GLODIAC does not control broad-leaved weeds and if these are present a specific broad-leaved weed herbicide will be required.

CROP SPECIFIC INFORMATION

Crops

GLODIAC can be used on all varieties of winter and spring wheat and winter and spring barley.

Timing

Spray in the autumn, winter or spring from two true leaves (GS12) to before flag leaf sheath extending stage of the crop. Spraying should be done when the majority of weeds have germinated, but before weed competition reduces yield.

Rates of use

Apply GLODIAC at 0.55 - 0.82 litres per hectare.

WEED CONTROL

Winter and spring wheat and winter and spring barley

Wild oats – apply 0.82 litres per hectare GLODIAC from 1st leaf unfolded to flag leaf ligule visible.

Where applications are made to wild oats no larger than the 2 tiller stage (GS22) a dose of 0.55 litres per hectare may give acceptable levels of control.

Italian rye-grass and perennial rye-grass (from seed) – apply 0.82 litres per hectare GLODIAC from 1st leaf unfolded to flag leaf ligule visible. Where applications are made to ryegrasses no larger than the 2 tiller stage (GS22) a dose of 0.55 litres per hectare may give acceptable levels of control. Always use as part of a weed control programme including other products active against ryegrasses.

FOLLOWING CROPS

There are no restrictions on succeeding crops in a normal rotation. In the event of a crop failure after application of GLODIAC, 4 weeks should elapse after application before ryegrass, maize, oats or broad-leaved crops are planted as replacement crops.

MIXING AND SPRAYING

Mixing Procedure

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of water and begin agitation. Add the required amount of GLODIAC to the spray tank and mix thoroughly. Add the rest of the water and continue to agitate until spraying operation is complete.

Spray Quality

Apply GLODIAC using a conventional fan nozzle producing a spray quality at the finer end of the medium range as defined by the British Crop Protection Council. Do not use pre-orifice and air induction nozzles as these may give reduced control, which in high weed populations can prove unacceptable. A spray pressure of 2-3 bars is recommended.

Spray Volume

Spray GLODIAC in 100 - 400 litres of water per hectare.

TANK CLEANING PROCEDURE

Immediately after use, clean the spray equipment thoroughly. Drain the system completely and rinse spray tank, boom and nozzles two to three times with clean water until the foam and all traces of product have been removed.

This product is to be used only in accordance with the recommendations and instructions given on the label provided with this pack. Use in any other circumstances is entirely at user's risk.

Section 6 of the Health and Safety at Work Act
Additional Product Safety Information (UK Only)

(This section does not form part of the product label under the Plant Protection Products Regulations 1995.)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'Extension of Use' approval or is otherwise permitted under the Plant Protection Products Regulations.

The information on this label is based on the best available information including data from test results.

SAFETY DATA SHEET - V1.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: GLODIAC

Design code: A21796A

Product Registration Number: PCS 07024

Unique Formula Identifier (UFI): C1F4-60JU-C00M-R5VC

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Herbicide

Recommended restrictions on use: professional use

1.3 Details of the supplier of the safety data sheet Company

Company Syngenta Ireland Limited, Block 6 Cleaboy Business Park, Old Kilmeaden Road, Waterford, Ireland

Telephone (051) 377203

Telefax 051) 354748

E-mail address of person responsible for the SDS: cropsales.ie@syngenta.com

1.4 Emergency telephone number

Emergency telephone number: Syngenta +44 1484 538444

Poisons Information Centre of Ireland

Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 - H315: Causes skin irritation.

Skin sensitisation, Sub-category 1A - H317: May cause an allergic skin reaction.

Reproductive toxicity, Category 2 - H361d: Suspected of damaging the unborn child.

Long-term (chronic) aquatic hazard, Category 2 - H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word	Warning	
Hazard	H315	Causes skin irritation.
Statements	H317	May cause an allergic skin reaction.
	H361d	Suspected of damaging the unborn child.
	H411	Toxic to aquatic life with long lasting effects

Precautionary Statements	P201	Obtain special instructions before use.
	P261	Avoid breathing mist or vapours.
	P264	Wash skin thoroughly after handling.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
	P308 + P313	IF exposed or concerned: Get medical advice/ attention.
	P391	Collect spillage.
	P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
hydrocarbons, C10-C13, aromatics, <1% naphthalene	64742-94-5 01-2119451097-39-xxxx	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 25 - < 30
2-methylpentane-2,4-diol	107-41-5 203-489-0 603-053-00-3 01-2119539582-35-xxxx	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 10 - < 20

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
pinoxaden (ISO)	243973-20-8 607-726-00-2	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 2 ; H361d STOT SE 3; H335 (Respiratory system) Aquatic Acute 1 ;H400 Aquatic Chronic 3;H412 M-Factor (Acute aquatic toxicity): 1 Acute toxicity estimate Acute oral toxicity: 500 mg/kg Acute inhalation toxicity (dust/mist): 4.63 mg/l	>= 3 - < 10
cloquintocet-mexyl	99607-70-2 01-2119381871-32-xxxx	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT RE 2; H373 (Urinary system, Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2.5
naphthalene	91-20-3 202-049-5 601-052-00-2	Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1

For explanation of abbreviations see section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

If inhaled: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre 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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: There is no specific antidote available. Treat symptomatically. Do **NOT** induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires: Use alcohol-resistant foam or water spray.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Specific hazards arising from the substance or mixture

Specific hazards during firefighting: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

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.

6.3 Methods and materials for containment and cleaning up

Methods for 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.

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingsuffs.

7.3 Specific end use(s)

Specific use(s): For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrocarbons, C10-C13, aromatics, <1% naphthalene	64742-94-5	TWA	8 ppm 50 mg/m ³	Supplier
2-methylpentane-2,4-diol	107-41-5	OELV - 15 min (STEL)	25 ppm 125 mg/m ³	IE OEL
pinoxaden (ISO)	243973-20-8	TLV-C	0.1 mg/m ³	Syngenta
cloquintocet-mexyl	99607-70-2	TWA	1 mg/m ³	Syngenta
naphthalene	91-20-3	TWA	10 ppm 50 mg/m ³	91/322/EEC
	Further information: Indicative			
		OELV - 8 hrs (TWA)	10 ppm 50 mg/m ³	IE OEL

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
tris(2-ethylhexyl) phosphate	Workers	Inhalation	Long-term systemic effects	350 mg/m ³
	Workers	Inhalation	Acute systemic effects	2800 mg/m ³
	Workers	Dermal	Long-term systemic effects	50 mg/kg
	Workers	Dermal	Acute systemic effects	40 mg/kg
	Consumers	Dermal	Acute systemic effects	200 mg/kg
	Consumers	Dermal	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Acute systemic effects	500 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	62.5 mg/m ³
	Consumers	Oral	Acute systemic effects	200 mg/kg
Consumers	Oral	Long-term systemic effects	25 mg/kg	
2-methylpentane-2,4-diol	Workers	Inhalation	Short-term exposure, Local effects	98 mg/m ³
	Workers	Inhalation	Long-term systemic effects	14 mg/m ³
	Workers	Inhalation	Long-term local effects	49 mg/m ³

Substance name	End Use	Exposure routes	Potential health effects	Value
	Workers	Dermal	Long-term systemic effects	2 mg/kg
	Consumers	Inhalation	Short-term exposure, Local effects	49 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	3.5 mg/m ³
	Consumers	Inhalation	Long-term local ef-fects	25 mg/m ³
	Consumers	Oral	Long-term systemic effects	1 mg/kg
	Consumers	Dermal	Long-term systemic effects	1 mg/kg
hydrocarbons, C10-C13, aromatics, <1% naphthalene	Workers	Inhalation	Long-term systemic effects	151 mg/m ³
	Workers	Dermal	Long-term systemic effects	12.5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m ³
	Consumers	Dermal	Long-term systemic effects	7.5 mg/kg
	Consumers	Oral	Long-term systemic effects	7.5 mg/kg
castor oil, ethoxylated	Workers	Inhalation	Long-term systemic effects	16.4 mg/m ³
	Workers	Dermal	Long-term systemic effects	4.67 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.9 mg/m ³
	Consumers	Dermal	Long-term systemic effects	1.67 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day
cloquintocet-mexyl	Industrial use	Dermal	Long-term exposure, Systemic effects	3.33 mg/kg
	Industrial use	Inhalation	Long-term exposure, Systemic effects	0.303 mg/m ³
naphthalene	Workers	Inhalation	Long-term systemic effects	25 mg/m ³
	Workers	Inhalation	Long-term local effects	25 mg/m ³
	Workers	Dermal	Long-term systemic effects	3.57 mg/kg

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
tris(2-ethylhexyl) phosphate	Sewage treatment plant	1 mg/l
2-methylpentane-2,4-diol	Fresh water	0.429 mg/l
	Marine water	0.0429 mg/l
	Fresh water sediment	1.79 mg/kg
	Marine sediment	0.179 mg/kg
	Soil	0.11 mg/kg
castor oil, ethoxylated	Fresh water sediment	0.0129 mg/kg dry weight (d.w.)
	Marine sediment	0.00129 mg/kg dry weight (d.w.)
	Soil	0.00258 mg/kg dry weight (d.w.)
cloquintocet-mexyl	Fresh water	0.0018 mg/l
	Fresh water sediment	0.934 mg/kg dry weight (d.w.)

Substance name	Environmental Compartment	Value
	Marine water	0.00018 mg/l
	Marine sediment	0.0934 mg/kg dry weight (d.w.)
	Soil	0.463 mg/kg dry weight (d.w.)
naphthalene	Fresh water	0.0024 mg/l
	Marine water	0.0024 mg/l
	Sewage treatment plant	2.9 mg/l
	Fresh water sediment	0.0672 mg/kg
	Marine sediment	0.0672 mg/kg
	Soil	0.0533 mg/kg

8.2 Exposure controls

Engineering measures

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

Eye protection : No special protective equipment required.

Hand protection

Material : Nitrile rubber

Break through time : > 480 min

Glove thickness : 0.5 mm

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 on 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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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

Respiratory protection : No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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.

Environmental exposure controls

Water: 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: clear to opalescent

Colour: light yellow

Odour: aromatic

Odour Threshold: No data available

Melting point/range: No data available

Boiling point/boiling range: No data available

Flammability: No data available

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit: No data available

Flash point: 104 °C

Method: Pensky-Martens closed cup

Auto-ignition temperature: 370 °C

Decomposition temperature: No data available

pH: 3 - 7, Concentration: 1 % w/v

Viscosity, kinematic: 22.7 mm²/s (40 °C)

Water solubility: No data available

Solubility in other solvents: No data available

Partition coefficient: n-octanol/water: No data available

Vapour pressure: No data available

Density: 0.95 - 0.99 g/cm³ (20 °C)

Relative vapour density: No data available

Particle size: No data available

9.2 Other information

Explosives: Not explosive

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

Evaporation rate: No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : None known

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure: Ingestion, Inhalation, Skin contact, Eye contact

Acute toxicity

Product:

- Acute oral toxicity: LD50 (Rat, female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on data from similar materials
- Acute inhalation toxicity: Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method
- Acute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Components:

2-methylpentane-2,4-diol:

- Acute oral toxicity: LD50 Oral (Rat): 2,000 mg/kg
Acute dermal toxicity: LD50 Dermal (Rat): 2,000 mg/kg

pinoxaden (ISO):

- Acute oral toxicity: LD50 (Rat, male and female): > 5,000 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
- Acute inhalation toxicity: LC50 (Rat, male): 4.63 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute toxicity estimate: 4.63 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
- 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

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.

Result : Repeated exposure may cause skin dryness or cracking.

Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Result : Repeated exposure may cause skin dryness or cracking.

2-methylpentane-2,4-diol:

Species: Rabbit

Result: Irritating to skin.

pinoxaden (ISO):

Method: Based on Human Evidence

Result: Irritating to skin.

cloquintocet-mexyl:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit

Result: No eye irritation

Remarks: Based on data from similar materials

Components:

2-methylpentane-2,4-diol:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

pinoxaden (ISO):

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

cloquintocet-mexyl:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Product:

Test Type: Buehler Test

Species: Guinea pig

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

Remarks: Based on data from similar materials

Components:

pinoxaden (ISO):

Test Type: mouse lymphoma cells

Species: Mouse

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

Test Type: Respiratory sensitisation

Result: Does not cause respiratory sensitisation.

Remarks: Experience with human exposure

cloquintocet-mexyl:

Species: Guinea pig

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Components:

2-methylpentane-2,4-diol:

Germ cell mutagenicity- Assessment: In vitro tests did not show mutagenic effects

pinoxaden (ISO):

Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects.

cloquintocet-mexyl:

Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

2-methylpentane-2,4-diol:

Carcinogenicity - Assessment: Weight of evidence does not support classification as a carcinogen

pinoxaden (ISO):

Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

cloquintocet-mexyl:

Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

naphthalene:

Carcinogenicity - Assessment: Limited evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

2-methylpentane-2,4-diol:

Reproductive toxicity - Assessment: No toxicity to reproduction

pinoxaden (ISO):

Reproductive toxicity - Assessment: No toxicity to reproduction

cloquintocet-mexyl:

Reproductive toxicity - Assessment: No toxicity to reproduction

STOT - single exposure

Components:

pinoxaden (ISO):

Assessment: Based on Human Evidence. The substance or mixture is classified as specific target organ toxicant, single exposure, category 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 (ISO):

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), heavy arom.; Kerosine — unspecified:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish:

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 19 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials.

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 1.8 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials.

Toxicity to algae/aquatic plants:

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 32 mg/l

Exposure time: 72 h

Remarks: Based on data from similar materials.

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 5.5 mg/l

End point: Growth rate

Exposure time: 72 h

Remarks: Based on data from similar materials.

Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Toxicity to fish :

LL50 (*Oncorhynchus mykiss* (rainbow trout)): 3.6 mg/l

Exposure time: 96 h

Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates:

EL50 (*Daphnia magna* (Water flea)): 1.1 mg/l

Exposure time: 48 h

Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants:

EL50 (*Raphidocelis subcapitata* (freshwater green alga)): 7.9 mg/l

End point: Growth rate

Exposure time: 72 h

Remarks: Information given is based on data obtained from similar substances.

NOELR (*Raphidocelis subcapitata* (freshwater green alga)): 0.22 mg/l

End point: Growth rate

Exposure time: 72 h

Remarks: Information given is based on data obtained from similar substances.

Ecotoxicology Assessment

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

pinoxaden (ISO):

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

M-Factor

(Acute aquatic toxicity):

Toxicity to fish (Chronic toxicity):

1
NOEC: 6.6 mg/l
Exposure time: 28 d
Species: *Oncorhynchus mykiss* (rainbow trout)

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: 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

M-Factor (Acute aquatic toxicity):

Toxicity to microorganisms:

1
EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC: > 0.437 mg/l
Exposure time: 21 d
Species: *Daphnia* (water flea)

naphthalene:

Ecotoxicology Assessment

Acute aquatic toxicity:

Very toxic to aquatic life.

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

12.2 Persistence and degradability

Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Biodegradability : Result: Readily biodegradable.

2-methylpentane-2,4-diol:

Biodegradability: Result: Readily biodegradable.

pinoxaden (ISO):

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.

12.3 Bioaccumulative potential

Components:

pinoxaden (ISO):

Bioaccumulation: Remarks: Low bioaccumulation potential.

cloquintocet-mexyl:

Bioaccumulation: Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water: log Pow: 5.24 (25 °C)

12.4 Mobility in soil

Components:

pinoxaden (ISO):

Distribution among environmental 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 environmental compartments: Remarks: immobile

Stability in soil: Dissipation time: 2.4 d

Percentage dissipation: 50 % (DT50)

Remarks: Product is not persistent.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

2-methylpentane-2,4-diol:

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).

pinoxaden (ISO):

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:

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:

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).

12.6 Endocrine disrupting properties**Product:**

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product: 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.

Waste Code: uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14. TRANSPORT INFORMATION**14.1 UN number**

ADR	RID	IMDG	IATA
UN 3082	UN 3082	UN 3082	UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(CLOQUINTOCET-MEXYL AND SOLVENT NAPHTHA)

14.3 Transport hazard class(es)

ADR	RID	IMDG	IATA
9	9	9	9

14.4 Packing group**ADR**

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

RID

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

IMDG

Packing group : III

Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft): 964

Packing instruction (LQ): Y964

Packing group: III

Labels: Class 9 - Miscellaneous dangerous substances and articles

IATA (Passenger)

Packing instruction (passenger aircraft): 964

Packing instruction (LQ): Y964

Packing group: III

Labels: Class 9 - Miscellaneous dangerous substances and articles

14.5 Environmental hazards**ADR**

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous: yes

IATA (Cargo)

Environmentally hazardous: yes

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): naphthalene

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 ENVIRONMENTAL HAZARDS

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Use plant protection products safely. Always read the label and product information before use. Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable. Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16. OTHER INFORMATION

Full text of H-Statements

- H228: Flammable solid.
H302: Harmful if swallowed.
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.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H361d: Suspected of damaging the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.
EUH066: Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

- Acute Tox.: Acute toxicity
Aquatic Acute: Acute aquatic toxicity
Aquatic Chronic: Chronic aquatic toxicity
Asp. Tox.: Aspiration hazard
Carc.: Carcinogenicity
Eye Irrit.: Eye irritation
Flam. Sol.: Flammable solids
Repr. : Reproductive toxicity
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
STOT RE: Specific target organ toxicity - repeated exposure
STOT SE: Specific target organ toxicity - single exposure

91/322/EEC: Europe. Commission Directive 91/322/EEC on establishing indicative limit values
IE OEL: Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
91/322/EEC / TWA: Limit Value - eight hours
IE OEL / OELV - 8 hrs (TWA): Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min (STEL): Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS -
Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw
- Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR
- Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation;
DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European
Community number; 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; 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; NO(A)
EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No
Observable Effect Loading Rate; 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; PICGS - 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail;
SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very
High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances;
TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very
Bioaccumulative

Further information

Classification of the mixture:

Skin Irrit. 2	H315
Skin Sens. 1A	H317
Repr. 2	H361d
Aquatic Chronic 2	H411

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method

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.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

Crop	Max individual dose (L/ha)	Max no. of applications	Max total dose (L/ha)	Latest time of application
Winter and spring wheat, Spring and Winter Barley	0.82	-	0.82	Before flag leaf sheath extending stage (GS41)

To avoid the build up of resistance do not apply products containing an ACCase inhibitor herbicide more than twice to any crop. In addition, do not use this product in mixture or sequence with any other product containing pinoxaden.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

SAFETY PRECAUTIONS**(a) Operator protections**

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental Protection

Do not contaminate water with the product or its container.

Do not clean application equipment near surface water/avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

EMPTY CONTAINER COMPLETELY and dispose of safely.