

**Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product Identifier**

Product Name: KIPOTA  
Product Description: Emulsifiable Concentrate  
  
Chemical description of active substance (s): Prop-2-ynyl (-2-[4-(5-chloro-3-fluoropyridin-2-yloxy)phenoxy]propionate  
Chemical Family: Aryloxyphenoxy-propionate  
GCPF code: EC (Emulsifiable Concentrate)

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

Product Use: Agriculture – Herbicide

**1.3 Details of the supplier of the safety data sheet**

Company: Life Scientific Ltd,  
NovaUCD,  
Belfield Innovation Park  
Dublin 4  
Ireland  
Telephone: +353 (0) 1 2832024  
Fax: +353 (0) 1 2832026  
Email: info@lifescientific.com

**1.4 Emergency contact information**

In case of Emergency: Tel. NHS 111

**Section 2. HAZARD IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) No. 1272/2008

Asp. Tox.	Category 1	H304
Aquatic Acute	Category 1	H400
Aquatic Chronic	Category 1	H410

**2.2 Label Elements**

Labelling according to Regulation (EU) 1272/2008

Hazard Pictograms:



Signal Word:

Warning

Hazard Phrases:

H304 May be fatal if swallowed and enters airways.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Phrases:**

P102 Keep out of reach of children.  
P260 Do not breathe vapours/spray.  
P273 Avoid release to the environment.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
P331 Do NOT induce vomiting.  
P391 Collect spillage  
P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

**Other Phrases :**

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

**2.3 Other Hazards**

Substance does/does not meet the criteria for vPvB according to regulation (EC) No 1907/2006, Annex III.

**Section 3. COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substances**

No substances fulfil the criteria set out in Annex II, Part A of the REACH Regulation (EC) No 1907/2006.

**3.2 Mixtures**

Chemical Name	CAS	EC	Classification (Regulation (EC) No 1272/2008)	Concentration (% w/w)
clodinafop-propargyl	105512-06-9	-	Acute Tox.4; H302 Skin Sens.1; H317 Acute Tox. 4 :H332 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	15 - 25 % w/w
cloquintocet-mexyl	99607-70-2	-	Skin Sens.1; H317	4 - 8 % w/w
Calcium dodecylbenzene sulfonate	26264-06-2	247-557-8	Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Chronic. 3; H412	1 – 5 % w/w
solvent naphtha (petroleum)	64742-94-5	265-185-5	Asp. Tox.1; H304 Aquatic Chronic2; H411	50 – 60 % w/w
poly(oxy-1,2-ethanediyl), alpha-[tris(1-phenylethyl) phenyl]-omega-hydroxy-1	99734-09-5	-	Aquatic Chronic3; H412	1 – 5 % w/w
2(3H)-furanone, dihydro-	96-48-0	202-509-5	Acute Tox.4; H302 Eye Dam.1; H318 STOT SE3; H336	10-20 % w/w

**Section 4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

General information: If unwell, consult a physician showing the product container, label or this safety data sheet.  
Inhalation: Move 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.  
Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

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.

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.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms: None known.

**4.3 Indication of any immediate medical attention and special treatment needed**

Notes to physicians: There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

**Section 5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

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

**5.2 Special hazards arising from the substance or mixture**

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. Flash back possible over considerable distance.

**5.3 Advice for firefighters**

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread fire.

**Section 6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**6.3 Methods and materials for containment and cleaning up**

Contain and collect spillage 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).

**6.4 Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

**Section 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

No special technical protective measures required. No special handling advice 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**

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 feed.

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

**7.3 Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

**Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION**

**8.1 Control parameters**

Component	Exposure Limit	Value Type	Source
clodinafop-propargyl	1.0 mg/m <sup>3</sup>	8h TWA	Supplier
cloquintocet-mexyl	10 mg/m <sup>3</sup>	8h TWA	Supplier
solvent naphtha (petroleum), highly arom.	20 ppm 100 mg/m <sup>3</sup>	8h TWA	Supplier

**8.2 Exposure controls**

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

Respiratory protection:	A combination gas, vapour and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.
Skin protection:	No special protective equipment required. Select skin and body protection based on the physical job requirements.
Hand protection:	Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.
Eye protection:	Eye protection is not usually required. Follow any site specific eye protection policies. Eye/face protection should be certified to EN 166.
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. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.
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. Personal protective equipment should be certified to appropriate standards.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

**Appearance**

Form:	Liquid.
Colour:	Yellow to brown
Odour:	Aromatic

**Chemical properties**

pH (at 20 °C):	4 – 8 (1%)
Flash Point:	86°C (764 mm Hg)
Oxidising properties:	Not Oxidising.
Explosive properties:	Not Explosive.
Density (at 20 °C):	1.08 g/ml at 20°C
Dynamic Viscosity:	11.4 mPa.s (20 °C), 5.7 mPa.s (40 °C)
Surface Tension:	37.8 mN/m (25 °C), 33.5 mN/m (20 °C)

**9.2 Other Information**

None.

**Section 10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

**10.2 Chemical Stability**

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

**10.3 Possibility of hazardous reactions**

None known. Hazardous polymerisation does not occur. Stable under normal conditions.

**10.4 Conditions to avoid**

See MSDS section 7 - Handling and storage.

**10.5 Incompatible material**

None known.

**10.6 Hazardous decomposition products**

Combustion or thermal decomposition will evolve toxic and irritant vapours.

**Section 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

LD <sub>50</sub> oral rat:	>2000mg/kg (female)
LD <sub>50</sub> dermal rat:	>5000mg/kg.
LD <sub>50</sub> inhalation rat:	>5 mg/l
Eye irritation rabbit:	Not irritating.
Skin irritation rabbit:	Not irritating.
Sensitisation guinea pig:	Not sensitising.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Developmental Toxicity:	Not teratogenic.

**Section 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

LC <sub>50</sub> <i>O. mykiss</i> (96 h):	>3.6 mg/l.
EC <sub>50</sub> <i>Daphnia magna</i> (48 h):	9.5 mg/l.
E <sub>b</sub> C <sub>50</sub> <i>P. subcapitata</i> (72 h):	1.3 mg/l.
E <sub>r</sub> C <sub>50</sub> <i>P. subcapitata</i> (72 h):	7.6 mg/l.

**12.2 Persistence and degradability**

Cloquintocet-mexyl & clodinafop-propargyl are not persistent in water or readily biodegradable.

**12.3 Bioaccumulative potential**

Cloquintocet-mexyl & clodinafop-propargyl do not bioaccumulate.

**12.4 Mobility in soil**

Cloquintocet-mexyl is immobile in soil. Clodinafop-propargyl has low mobility in soil

**12.5 Results of PBT and vPvB assessment**

This mixture does not meet the criteria applicable to PBT or vPvB mixtures in accordance with Annex XIII of the REACH Regulation (EC) No. 1907/2006

**12.6 Other adverse effects**

None.

**Section 13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Waste disposal procedures: 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 for local recycling or waste disposal. Do not re-use empty containers.

**Section 14. TRANSPORT INFORMATION**

**14.1 UN Number**

3082.

**14.2 UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (CLODINAFOP-PROPARGYL AND SOLVENT NAPHTHA).

**14.3 Transport hazard class(es)**

9.

**14.4 Packing group**

III.

**14.5 Environmental hazards**

Marine Pollutant.

**14.6 Special precautions for user**

None.

**14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code**

No data available.

**Section 15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture**

To avoid risk to man and the environment, comply with the instructions for use.

**15.2 Chemical safety assessment**

A chemical safety assessment according to Regulation (EC) No. 1907/2006 is not required.

**Section 16. OTHER INFORMATION**

**Full list of relevant hazard and precautionary statements that were not given in full in sections 2 and 3.**

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness
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.

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