

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

1.1 Product Identifier

Product Name: KIPOTA
Product Code: 039-02

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

Product Use: Herbicide

1.3 Details of the supplier of the safety data sheet

Company: Life Scientific Ltd,
Block 4,
Belfield Office Park,
Beech Hill Road,
Dublin 4
Ireland
Telephone: +353 (0) 1 2832024
Email: info@lifescientific.com
Web: www.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

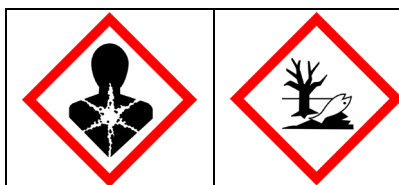
Classification according to Regulation (EU) No. 1272/2008

Aspiration hazard	Category 1	H304
STOT — Repeated exposure	Category 2	H373
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.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P391	Collect spillage
P405	Store locked up
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.
SP 1	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).

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.

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 ³	8h TWA	Supplier
cloquintocet-mexyl	10 mg/m ³	8h TWA	Supplier
solvent naphtha (petroleum), highly arom.	20 ppm 100 mg/m ³	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 ₅₀ oral rat:	>2000mg/kg (female)
LD ₅₀ dermal rat:	>5000mg/kg.
LD ₅₀ 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.

**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

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

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

Transport the product in accordance with the provisions of ADR for road, RID for rail, IMDG for the sea, and ICAO / IATA for air transport

14.1 UN Number

3082

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (CLODINAFOF-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.

The information presented in this document is accurate to the best of our knowledge at the date of its publication. However, the information given is designed only as a guide for the methods of handling, storage, use, transportation and disposal of the product and is not considered a warranty or quality specification. Life Scientific Limited cannot be held responsible for any loss or damage resulting from the handling, storage, use or disposal of the product. The information contained in this document relates only to this specific product.

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