

CLAYTON PLANT PROTECTION

CLAYTON GALIC Safety Data Sheet according to Regulation (EU) No. 453/2010. Version 2/dsc
08/06/2017. This version replaces all previous versions.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier CLAYTON GALIC

1.2 Relevant identified uses of the substance. INSECTICIDE

1.3 Details of the supplier of the safety data sheet.

Clayton Plant Protection (UK) Ltd. Bracetown Business Park, Clonee, Dublin15. Ireland.
Tel: (00 353) 1 8210127 www.cpp.ag Email: info@cpp.ag

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Flammable liquids Category 3 H226

Acute toxicity (Oral) Category 4 H302

Aspiration hazard Category 1 H304

Skin Sensitisation Category 1B H317

Serious eye damage Category 1 H318

STOT-single exposure Category 3 H335

STOT-single exposure Category 3 H336

Acute aquatic toxicity Category 1 H400

Chronic aquatic toxicity Category 1 H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



Signal Word : Danger

Hazard Statements

- H226 Flammable liquid and vapour
- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H410 Very toxic to aquatic wildlife with long lasting effects

Precautions Statements

- P102 Keep out of reach of children
- P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking
- P280 Wear protective gloves, protective clothing, eye protection, face protection
- P301/P310 IF SWALLOWED immediately call a POISON CENTRE or doctor/physician
- P305/P351/P338 IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P331 Do NOT induce vomiting
- P391 Collect spillage
- P501 Dispose of contents and container to a licensed hazardous waste contractor or collection site except for empty containers which can be disposed of as non-hazardous waste

Supplemental Information

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

EUH066 Repeated exposure may cause skin dryness or cracking

Hazardous components which must be listed on the label:

- primiphos-methyl
- solvent naphtha (petroleum), light arom

2.3 Other hazards : None known.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures. Hazardous components

Chemical name	CAS No. EC No. Registration number	Classification (Regulation (EC) No 1272/2008)	Concentration
Pirimiphos methyl	29232-93-7 249-528-5	Acut Tox 4. H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	49% W/W
Solvent naptha (petroleum) light arom.	64742-95-6 265-199-0 01-2119455851-35-0 002	Flam Liq 3 H226 STOT SE3 H335 STOT SE3 H336 Asp Tox 1 H304 Aquatic Chronic 2 H411	40-50% W/W
Calcium dodecyl benzene sulphonate	26264-06-2 90194-26-6 247-557-8	Skin Irrit 2 H315 Eye damage 1 H318	1-5% W/W
2-methylpropan-1-ol	78-83-1 201-148-0 01-2119484609-23-0 012	Flam Liq s H226 STOT SE3 H335 Skin irrit 2 H315 Eye damage 1 H318 STOT SE3 H336	1-2% W/W

Substances for which there are Community workplace exposure limits.

For the full text of the R-phrases mentioned in this section, 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 a Poison Control Centre or physician, or going for treatment.

Inhalation: 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.

Skin contact: Take off 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.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: The symptoms are of cholinesterase inhibition.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice: Call a poison control centre or doctor immediately for treatment advice. Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulphate, either by intramuscular or intravenously, dependant on severity of poisoning. Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.

SECTION 5. FIRE FIGHTING MEASURES

5.1 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.

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

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.

5.3 Advice for fire-fighters: Wear full protective clothing and self-contained breathing apparatus. 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:

Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Pay attention to flashback.

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 for 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:

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

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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for 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.

7.2 Conditions for safe storage, including any incompatibilities

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 feeding stuffs. No smoking.

7.3 Specific end use(s) : Registered Crop Protection products: 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

Components	Exposure limit(s)	Type of exposure limit	Source
pirimiphos-methyl	3 mg/m ³ (skin)	8 h TWA	Syngenta
solvent naphtha (petroleum), light arom.	100mg/m ³	8 h TWA	Syngenta

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

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. 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.

Respiratory protection: A gas and vapour filter 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.

Hand protection: Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected. Suitable material: nitrile rubber.

Eye protection: If eye contact is possible, use tight-fitting chemical safety goggles and a faceshield.

Skin and body protection: Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation/penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.). Wear as appropriate: impervious protective suit.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State: liquid Form: liquid.clear Colour: light yellow to brown Odour: aromatic Odour Threshold: No data available pH: 4–8 at 1% w/v Melting point/range: No data available Boiling point/range: No data available Flash Point: 46% Evaporation Rate: No data available Flammability (solid, gas): Not data available Lower explosion limit: No data available	Upper explosion limit: No data available Vapour pressure: No data available Relative vapour density: No data available Density: 1.02 g/ml at 20°C Solubility in other solvents: Miscible in water Partition Coefficient: n-octanol/water: No data available Autoignition temperature: >410°C Thermal decomposition: No data available Viscosity, dynamic: 4.61 mPa.s at 40°C, 8.08 mPa.s at 20°C Viscosity, kinematic: No data available Explosive properties: Not explosive Oxidizing properties: Not oxidising
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9.2 Other information : Surface tension 35.3 mNm/m at 25°C

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No information available

10.2 Chemical stability: No information available

10.3 Possibility of hazardous reactions: None known. Hazardous polymerisation does not occur.

10.4 Conditions to avoid: No information available

10.5 Incompatible materials: No information available

10.6 Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity : LD50 female rat, 300 - 2,000 mg/kg
Acute inhalational toxicity : pirimiphos-methyl LC50 male and female rat, > 5.04 mg/l , 4 h
solvent naphtha (petroleum), light arom. Irritating to respiratory system
Acute dermal toxicity : LD50 male and female rat, > 2,000 mg/kg
Skin corrosion/irritation : rabbit: Mildly irritating
Serious eye damage/eye irritation : rabbit: Moderately irritating
Respiratory or skin sensitisation : Buehler Test guinea pig: A skin sensitizer in animal tests.
Germ cell mutagenicity : pirimiphos-methyl Did not show mutagenic effects in animal experiments.
2-methylpropan-1-ol Did not show mutagenic effects in animal experiments
Carcinogenicity : pirimiphos-methyl Did not show carcinogenic effects in animal experiments
2-methylpropan-1-ol Did not show carcinogenic effects in animal experiments.
Teratogenicity : pirimiphos-methyl Did not show teratogenic effects in animal experiments.
Reproductive toxicity : pirimiphos-methyl Did not show reproductive toxicity effects in animal experiments.
2-methylpropan-1-ol Did not show reproductive toxicity effects in animal experiments.
STOT – single exposure : 2-methylpropan-1-ol : May cause drowsiness or dizziness.
STOT – repeated exposure : pirimiphos-methyl No adverse effect has been observed in chronic toxicity tests.
2-methylpropan-1-ol No adverse effect has been observed in chronic toxicity tests.
Aspiration Toxicity : Solvent naphtha (petroleum), light arom. Aspiration hazard if swallowed - can enter lungs
and cause damage.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 Cyprinus carpio (Carp), 6.2 mg/l , 96 h
Toxicity to aquatic invertebrates : EC50 Daphnia magna (Water flea), 0.48 µg/l , 48 h
Toxicity to aquatic plants : EbC50 Pseudokirchneriella subcapitata (green algae), 3.07 mg/l , 72 h
ErC50 Pseudokirchneriella subcapitata (green algae), 8.27 mg/l , 72 h

12.2 Persistence and degradability

Stability in water : pirimiphos-methyl Degradation half life: 4 - 6 d Persistent in water
Stability in soil : pirimiphos-methyl Degradation half life: 8.3 d Not persistent in soil

12.3 Bioaccumulative potential : pirimiphos-methyl : High potential for bioaccumulation

12.4 Mobility in soil : pirimiphos-methyl : Low mobility in soil

12.5 Results of PBT and vPvB assessment : pirimiphos-methyl : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects : Other information : Classification of the product is based on the summation of the concentrations of classified components.

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

SECTION 14. TRANSPORT INFORMATION

Land transport (ADR/RID)

UN Number: 1993 UN proper shipping name: FLAMMABLE LIQUID, N.O.S., (SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL) Transport hazard class(es): 3 Packing Group: III Labels: 3
Environmental hazards: Environmentally hazardous

Sea transport (IMDG)

UN Number: 1993 UN proper shipping name: FLAMMABLE LIQUID, N.O.S., (SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL) Transport hazard class(es): 3 Packing Group: III Labels: 3
Environmental hazards: Marine Pollutant

Air transport (IATA-DGR)

UN Number: 1993 UN proper shipping name: FLAMMABLE LIQUID, N.O.S., (SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL) Transport hazard class(es): 3 Packing Group: III
Labels: 3

Special precautions for use : None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

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SECTION 15. REGULATORY INFORMATION

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

GHS-Labeling

Hazard pictograms



Signal Word : Danger

Hazard Statements

- H226 Flammable liquid and vapour
- H302 Harmful if swallowed
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Precautions Statements

- P102 Keep out of reach of children
- P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking
- P280 Wear protective gloves, protective clothing, eye protection, face protection
- P301/P310 IF SWALLOWED immediately call a POISON CENTRE or doctor/physician
- P305/P351/P338 IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P331 Do NOT induce vomiting
- P391 Collect spillage
- P501 Dispose of contents and container to a licensed hazardous waste contractor or collection site except for empty containers which can be disposed of as non-hazardous waste

Supplemental Information

- EUH401 To avoid risks to human health and the environment comply with the instructions for use
- EUH066 Repeated exposure may cause skin dryness or cracking

Hazardous components which must be listed on the label:

- primiphos-methyl
- solvent naphtha (petroleum), light arom

15.2 Chemical Safety Assessment : A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Use plant protection products safely. Always read the label and product information before use.

Full text of H-statements referred to under sections 2 and 3.

- H226 Flammable liquid and vapour
- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic reaction.
- H318 Causes serious eye damage
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- 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

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.