
SAFETY DATA SHEET

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

1.1 Product identifier

- Product Code: FAL 2010
- Product Name: Kudos
- UFI: Not applicable

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

- Use of the substance/mixture: Horticultural plant growth regulator for professional use

1.3 Details of the distributor

- Name of Distributor: Fruitfed Supplies, Part of PGG Wrightson Ltd
- Address of Distributor: 1 Robin Mann Place, Christchurch Airport, Christchurch 8053
- Telephone: (03) 372 0800
- www.pggwrightson.co.nz

1.4 Emergency telephone number

- Emergency Response (All Hours)
0800 CHEMCALL or 0800 243622

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classified as Designed for biocidal action

2.2 Label elements

- Symbols: None

Signal Word: None assigned

- Hazard statements
None assigned

- Precautionary statements
Avoid release to the environment (P273).
Dispose of contents/container to an authorised waste collection point (P501)

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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SECTION 3: Composition/information on ingredients (....)

- Prohexadione calcium
CAS Number: 127277-53-6
EC Number: None assigned
Categories: Aquatic Chronic 2
H Statements: H411
Concentration: 10 % w/w
- Alkyl-naphthalenesulfonic acid, polymer with formaldehyde, sodium salt
CAS Number: 68425-94-5
EC Number: None assigned
Categories: Eye Irrit. 2, Aquatic Chronic 3
H Statements: H319, H412
Concentration: 2%
- Naphthalenesulfonic acid, bis(1-methylethyl)-, methyl derivs., sodium salt
CAS Number: 68909-82-0
EC Number: 272-715-8
Categories: Acute Tox 4, Skin Irrit. 2, Eye Corr. 1
H Statements: H302, H315, H318
Concentration: 1%

SECTION 4: First aid measures

4.1 Description of first aid measures

- Contact with eyes
If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
Seek medical attention if irritation persists
- Contact with skin
Remove contaminated clothing immediately and drench affected skin with plenty of water.
Then wash with soap and water
Seek medical attention if irritation persists
- Ingestion
If swallowed: Call a poison center or doctor/physician if you feel unwell, rinse mouth
- Inhalation
Keep warm and at rest, in a half upright position. Loosen clothing
Remove promptly anything of a restrictive nature
Seek medical advice if necessary

4.2 Most important symptoms and effects, both acute and delayed

- No information available

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

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SECTION 5: Firefighting measures (....)

- In case of fire use foam, carbon dioxide or dry agent
 - 5.2 Special hazards arising from the substance or mixture
 - Large volumes may penetrate soil and contaminate groundwater
 - Seek expert advice for removal and disposal of all contaminated materials and wastes
 - 5.3 Advice for firefighters
 - Flammability: Non-flammable
 - Wear chemical protection suit and positive-pressure breathing apparatus
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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 - Wear protective clothing as per section 8
 - 6.2 Environmental precautions
 - Do not allow to enter public sewers and watercourses
 - Contain spillage by any means possible
 - If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
 - 6.3 Methods and material for containment and cleaning up
 - Absorb spillage in suitable inert material
 - Place in sealable container
 - Remove contaminated material to safe location for subsequent disposal
 - 6.4 Reference to other sections
 - See Section 8
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SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
 - Ensure adequate ventilation
 - Keep away from food, drink and animal feedingstuffs
 - The usual precautions for handling chemicals should be observed
 - Use good personal hygiene practices
 - Wash thoroughly after use
 - 7.2 Conditions for safe storage, including any incompatibilities
 - Keep in a cool, dry, well ventilated place
 - Stable in original container for at least 2 years at 18 - 22°C
 - 7.3 Specific end use(s)
 - Restricted to professional users
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SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
 - To avoid risks to man and the environment comply with instructions for use
 - 8.2 Exposure controls
 - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
 - Wear suitable protective clothing and gloves
 - Contaminated clothing should be laundered before reuse
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: solid
- Colour: beige
- Odour: Odourless
- Melting point/Range: No information available
- Boiling Point/Range: Not applicable
- Flammability: Non-flammable
- Lower explosive limit: Not applicable
- Upper explosive limit: Not applicable
- Flashpoint: None
- Autoignition Temperature: 330°C
- Decomposition temperature: No information available
- pH: 6.6 at 1 % concentration
- Kinematic viscosity: Not applicable
- Solubility in water: Soluble in water
- Partition coefficient : n-Octanol/water No information available
- Vapour pressure: Not applicable
- Density: Pour 0.56 g/ml
- Vapour Density: Not applicable
- Particle characteristics: Dust free granule with 100% attrition resistance

9.2 Other information

- No explosive or oxidising properties
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SECTION 10: Stability and reactivity

10.1 Reactivity

- Stable in original container for at least 2 years at 18 - 22°C

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Keep away from heat and sources of ignition

10.5 Incompatible materials

- Incompatible with strong oxidizing substances

10.6 Hazardous decomposition products

- Decomposition products may include toxic and irritant fumes
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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product

- LD50 (oral) : (rat) >2020 mg/kg
 - LC50 (inhalation) : Not applicable (dust free granule)
 - LD50 (dermal) : (rat) >2020 mg/kg
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SECTION 11: Toxicological information (....)

- Contact with skin: Non irritant
- Contact with eyes: (rabbit) Non irritant
- Sensitisation: (mouse lymph node) None
- Mutagenicity: No evidence of mutagenic effects
- Carcinogenicity: No evidence of carcinogenic effects
- Reproductive Effects: No evidence of reproductive effects
- STOT - Single exposure: No evidence of hazardous effects
- STOT - repeated exposure: No evidence of hazardous effects
- Aspiration hazard: Not applicable

11.2 Information on other hazards

- 11.2.1 Endocrine disrupting properties
No component defined as endocrine disrupting as set out by EC 2017/2100 and EC 2018/605
- 11.2.2 Other information
No information available

SECTION 12: Ecological information

Ecotoxicity - Not classified for Ecotoxicity but is design for biocidal use

12.1 Toxicity

- LC50 (fish): >100 mg/l (96 h)
- EC50 (Daphnia magna): >100 mg/l (48 h)
- EC50 (Algae): >100 mg/l (72 h)
- EC50 (Lemna): >90 mg/l (7 d)
- LC50 (Bird): Not available
- LD50 (bee) : > 96.6 µg/bee (Oral), > 100 µg/bee (Contact)
- Earthworm: > 1000 mg/kg d.s
- LR50 (Aphidius) : 3.613 Kg/ha (7 d)
- LR50 (Typhlodromus): 0.96 Kg/ha (7 d)

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not applicable

12.6 Endocrine disrupting properties

- No component defined as endocrine disrupting as set out by EC 2017/2100 and EC 2018/605

12.7 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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SECTION 13: Disposal considerations (....)

- Dispose of product by intended use or to an approved landfill. Do not discharge into drains or the environment.
 - Incineration by an approved method could be considered
 - Do not reuse empty containers
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SECTION 14: Transport information

14.1 UN proper shipping name

- UN No.: Not Classified

14.2 UN proper shipping name

- Proper Shipping Name: Not Classified

14.3 Transport hazard class(es)

- Hazard Class: Not Classified

14.4 Packing group

- Packing Group: Not Classified

14.5 Environmental hazards

- Not classified as hazardous for marine transport

14.6 Special precautions for user

- Restricted to professional users

14.7 Transport in bulk according to Annex II of Marpol 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

Registered pursuant to the ACVM Act 1997, P9459

Refer to www.foodsafety.govt.nz/acvm/ for registration conditions

Approved under HSNO Act 1996, HSR101225

Refer to www.epa.govt.nz for controls

Do NOT apply onto or into water.

Do NOT allow spray drift outside target spray area.

Apply under slower drying conditions rather than fast drying conditions.

Do Not apply if rainfall is expected within 8 hours of KUDOS treatment

The maximum application rate is 1.5kg/ha (0.15kg/ha prohexadione calcium)

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
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SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.

For further information on the product and product use refer to the product label

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SECTION 16: Other information (....)

Reason for Revision: New format / New data

The information provided in this Safety Data Sheet is accurate as of the date indicated and is compiled on the basis of Fine Agrochemicals' current knowledge and experience. It does not purport to be an exhaustive assessment. The data is supplied in good faith and is intended to provide health and safety guidance on the handling, storage, transportation and disposal of the material in / from the package in which it is supplied. It is not a substitute for the product label which must be consulted in tandem when applying the material. The information is specific to the material only and may not be valid when it is mixed or used with other materials. Fine Agrochemicals assumes no responsibility for any incidental or consequential damages arising from the use of this data and expressly disclaims any liability for loss, injury, damages or expenses arising from any failure to take into account the information or advice contained in this document.

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