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SAFETY DATA SHEET

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

1.1 Product identifier

- Product Code: FAL 480
- Product Name: Pirouette
- UFI: None assigned

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 supplier of the safety data sheet

- Name of Supplier: Fine Agrochemicals Limited
- Address of Supplier: Hill End House, Whittington, Worcester, WR5 2RQ. UK
- Telephone: +44 (0)1905 361800
- Responsible Person: Safety Department
- Email: sds@fine.eu

1.4 Emergency telephone number

- Emergency Telephone: (24hrs/day) +44 1865 407333 -- Carechem 24
- Or call local Poison Control Centre

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Chronic aquatic toxicity category 2

2.2 Label elements



- Symbols

Signal Word: None assigned

- Hazard statements

Toxic to aquatic life with long lasting effects (H411).

Contains 1,2-benzisothiazol-3(2H)-one . May produce an allergic reaction.

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

- Precautionary statements

Keep out of reach of children (P102).

Avoid release to the environment (P273).

Collect spillage (P391).

Dispose of contents/container to an authorised waste collection point (P501)

2.3 Other hazards

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

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SECTION 2: Hazards identification (....)

- No components classed as Nanoform materials
 - 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
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SECTION 3: Composition/information on ingredients

Ingredients classified under EC 1207/2008

3.2 Mixtures

- Paclobutrazol
CAS Number: 76738-62-0
EC Number: 266-325-7
Categories: Acute Tox. 4, Eye Irrit. 2, Repr. 2, Aquatic Acute 1, Aquatic Chronic 1
H Statements: H302, H332, H319, H361d, H400, H410
Concentration: 0.4 %
 - Alkyl-naphthalene sulfonic acid polymer with formaldehyde, sodium salt
CAS Number: 68425-94-5
EC Number: None assigned
Categories: Eye Irrit. 2
H Statements: H319
Concentration: < 2 %
 - 1,2-benzisothiazol-3(2H)-one
CAS Number: 2634-33-5
EC Number: 220-120-9
Categories: Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Eye damage category 1, Aquatic Acute 1, Aquatic Chronic 1
H Statements: H330, H302, H315, H317, H318, H400 (M=1), H410 (M=1)
Concentration: 0.019%
Remaining components not classified under EC 1207/2008
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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

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SECTION 4: First aid measures (....)

- 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
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SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 - 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
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SECTION 7: Handling and storage (....)

- 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: liquid
- Colour: brown
- Odour: Not available
- Melting point/Range: Not applicable
- Boiling Point/Range: No information available
- Flammability: Non-flammable
- Lower explosive limit: No information available
- Upper explosive limit: No information available
- Flashpoint: None
- Autoignition Temperature: > 400°C
- Decomposition temperature: No information available
- pH: 6.5 at 1 % concentration
- Kinematic viscosity: 66 mm²/s
- Solubility in water: Miscible with water
- Partition coefficient : n-Octanol/water No information available
- Vapour pressure: No information available
- Density: 1.02 g/ml
- Vapour Density: Not applicable
- Particle characteristics: D(10)

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

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SECTION 10: Stability and reactivity (....)

- 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

- LD50 (oral) : (rat) >2020 mg/kg
- LC50 (inhalation) : (rat) > 2.25 mg/l/4hr
- LD50 (dermal) : (rat) >2020 mg/kg
- Contact with skin: (rabbit) Non irritant
- Contact with eyes: (rabbit) Non irritant
- Sensitisation: Sensitization (guinea pig) : None
- Mutagenicity: No evidence of mutagenic effects
- Carcinogenicity: No evidence of carcinogenic effects
- Reproductive Effects: No evidence of reproductive effects
- STOT - Single exposure: Based on available data, classification criteria not met
- STOT - Repeat exposure: Based on available data, classification criteria not met
- 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 components classed as Nanoform materials
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SECTION 12: Ecological information

12.1 Toxicity

- LC50 (fish): > 100 mg/l (96hr), NOEC >100mg/l
- EC50 (Daphnia magna): >100 mg/l (48hr), NOEC > 100 mg/l
- EC50 (Algae): > 100 mg/l (72hr), NOEC 3.05-31.3 mg/l
- EC50 (Lemna): 7.5 mg/l (7day), NOEC 0.32 mg/l
- LC50 (Bird): > 2100 mg/kg (a.i.)
- LD50 (bee) : > 2.0 µg/bee (ai) (Oral), > 40.0 µg/bee (ai) (Contact)
- Earthworm: > 500 mg/Kg soil dw (ai)
- LR50 (Aphidius) : > 40 L/ha (48hr)
- LR50 (Typhlodromus): > 40 L/ha (7 day)

12.2 Persistence and degradability

- Not readily biodegradable

12.3 Bioaccumulative potential

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SECTION 12: Ecological information (....)

- Bioconcentration factor has been estimated at 44
 - 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
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SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
 - Do not discharge into drains or the environment, dispose to an authorised waste collection point
 - 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.: UN 3082
 - 14.2 UN proper shipping name
 - Proper Shipping Name: Environmentally Hazardous Substance, Liquid, n.o.s. (Contains Paclobutrazol)
 - 14.3 Transport hazard class(es)
 - Hazard Class: 9
 - 14.4 Packing group
 - Packing Group: III
 - 14.5 Environmental hazards
 - Marine Pollutant
 - 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 under regulation 1107/2009/EC
 - This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010
 - This safety data sheet is provided in compliance with EC Directive 1272/2008 as amended.
 - Water Hazard Class: 2 (Company)
 - 15.2 Chemical safety assessment
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SECTION 15: Regulatory information (....)

- A chemical safety report is not required since the product is already registered under the crop protection regulation 1107/2009/EC.
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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. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H330: Fatal if inhaled. H332: Harmful if inhaled. H361d: Suspected of damaging the unborn child. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

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

Reason for Revision: 2 year review

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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