

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

1.1 Product Identifier

Product Name: BOSCLER
Product Code: 063-01
UFI Code: 3229-CTKG-V10W-WXY1

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

Product Use: Fungicide

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

No need for classification according to GHS criteria for this product

2.2 Label Elements

Labelling according to Regulation (EU) 1272/2008

Hazard Pictograms: N/A

Signal Word:

N/A

Hazard Phrases:

N/A

Precautionary Phrases:

P102 Keep out of reach of children.
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.
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 not meet the criteria for PBT or 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)
Boscalid	188425-85-6	-	Aquatic Chronic 2: H411	50

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a Poison Control Centre or physician, or going for treatment.
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.
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 powder.
For large fires: Use alcohol-resistant foam or water spray.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire can produce carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides. Exposure to decomposition products may be a hazard to health.

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

Do not breathe in dust. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

6.2 Environmental precautions

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

6.3 Methods and materials for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, diatomaceous earth).

For large amounts: Dike spillage. Pump off product. Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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

Hand protection: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

7.2 Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Keep away from heat. Protect from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children.

7.3 Specific end use(s)

See Section 1 for the relevant identified use(s), advice mentioned in section 7 is to be observed.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Components with occupational exposure limits: None known

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom). For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

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:	No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
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:	If eye contact is a possibility, wear tight-fitting chemical safety goggles. Follow any site-specific eye protection policies.
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 dusts 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

Physical properties

Form:	Solid
Colour:	Brown
Odour:	Not tested

Chemical properties

pH:	5 - 7 at (1%) (20°C)
Melting point:	143.3 °C based on active
Boiling point/boiling range:	Not tested
Flash point:	Not tested
Evaporation rate:	Not tested
Flammability (solid, gas):	Non-flammable
Upper/lower flammability or explosive limits:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Vapour pressure:	Not tested
Vapour density (air):	Not applicable
Bulk density:	0.5 – 0.7 g/mL
Solubility(ies): Water	Dispersible
Partition coefficient:	
n-octanol/water:	Not tested
Auto-ignition temperature:	Not tested
Decomposition temperature:	Not tested
Viscosity:	Not applicable
Explosive properties:	Non-explosive
Oxidising properties:	Non-oxidising

9.2 Other Information

Not applicable

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if stored and handled as indicated.

10.2 Chemical Stability

Stable if stored and handled as indicated.

10.3 Possibility of hazardous reactions

None known if stored and handled as indicated.

10.4 Conditions to avoid

See section 7.

10.5 Incompatible material

Avoid strong oxidizing agents, strong bases and strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Experimental/calculated data:
(based on testing a similar formulation)

LD ₅₀ oral rat:	>2000mg/kg (OECD Guideline 423)
LD ₅₀ dermal rat:	>2000mg/kg (OECD Guideline 402)
LC ₅₀ inhalation rat:	>5.2mg/l (4h) (OECD Guideline 403)

Serious eye damage/irritation rabbit:	Non-irritant (OECD Guideline 404)
Skin corrosion/irritation rabbit:	Non-irritant (OECD Guideline 405)
Sensitisation Mouse Local Lymph Node Assay (LLNA) mouse:	Non-sensitizing (OECD Guideline 429)

Mutagenicity: No genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity: In long-term studies in rats the substance induced thyroid tumors. The effect is caused by an animal specific mechanism that has no human counterpart. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from the properties of the individual components.

Developmental Toxicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. (The product has not been tested. The statement has been derived from the properties of the individual components.

Reproductive Toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Specific Target Organ Toxicity (single exposure): Based on the available information there is no specific target organ toxicity expected after a single exposure. The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure): Boscalid: Adaptive effects were observed after repeated exposure in animal studies. (The product has not been tested. The statement has been derived from the properties of the individual components.)

Aspiration Hazard: None. (The product has not been tested. The statement has been derived from the properties of the individual components.)

Other Toxicity Information: Misuse can be harmful to health.

**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

Based on testing a similar formulation

LC ₅₀ <i>Oncorhynchus mykiss</i> (96 h):	100mg/l
EC ₅₀ <i>Daphnia magna</i> (48 h):	50mg/l
EC ₅₀ <i>Pseudokirchneriella subcapitata</i> (72 h):	4.5mg/l
EC ₁₀ <i>Pseudokirchneriella subcapitata</i> (72 h):	3.03mg/l

12.2 Persistence and degradability

Boscalid: Not readily biodegradable (by OECD criteria).
The product has not been tested. The statement has been derived from the properties of the individual components.

12.3 Bioaccumulative potential

Boscalid: Bioconcentration factor: 57 - 70 (28 d), *Oncorhynchus mykiss*. Does not accumulate in organisms.
The product has not been tested. The statement has been derived from the properties of the individual components.

12.4 Mobility in soil

Boscalid: Adsorption in soil: Adsorption to solid soil particles is probable, contamination of groundwater is not expected.
The product has not been tested. The statement has been derived from the properties of the individual components.

12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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

Do not discharge product into the environment without control.

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

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

None known.

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

Not evaluated.

Section 15. REGULATORY INFORMATION

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

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): List entry in regulation: E2

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

This product is classified under the European CLP Regulation.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2 Chemical safety assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet

Section 16. OTHER INFORMATION

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

H411	Toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

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.



SAFETY DATA SHEET

BOSCLER

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