

Safety data sheet

Page: 1/18

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time. Date / Revised: 08.07.2020 Version: 7.0 Date previous version: 14.07.2015 Previous version: 6.0 Product: Signum

> (ID no. 30266621/SDS_CPA_GB/EN) Date of print 08.07.2020

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

1.1. Product identifier

Signum

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

Relevant identified uses: crop protection product, fungicide

1.3. Details of the supplier of the safety data sheet

<u>Company:</u> BASF SE 67056 Ludwigshafen GERMANY <u>Contact address:</u> BASF plc PO Box 4, Earl Road, Cheadle Hulme, Cheadle, Cheshire SK8 6QG, UNITED KINGDOM

Telephone: +44 161 485-6222 E-mail address: product-safety-north@basf.com

1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
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(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020

Page: 2/18

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral) Aquatic Acute 1 Aquatic Chronic 1

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System (GHS) in accordance with UK regulations.

Pictogram:



Signal Word: Warning

Hazard Statement:			
H302	Harmful if swallowed.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.		
Precautionary Statem	ents (Prevention):		
P264	Wash with plenty of water and soap thoroughly after handling		
P270	Do not eat, drink or smoke when using this product.		
Precautionary Statem	ents (Response):		
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
P330	Rinse mouth		
P391	Collect spillage.		
Precautionary Statem	ents (Disposal):		
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.		

According to Regulation (EC) No 1272/2008 [CLP]

Page: 3/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
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Hazard determining component(s) for labelling: boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2yl)-nicotinamide, pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3yloxymethyl]phenyl}(N-methoxy)carbamate

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

crop protection product, fungicide, water dispersible granules

<u>Hazardous ingredients (GHS)</u> according to Regulation (EC) No. 1272/2008

boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide Content (W/W): 26.7 % Aquatic Chronic 2 CAS Number: 188425-85-6 H411

pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

Content (W/W): 6.7 % CAS Number: 175013-18-0 INDEX-Number: 613-272-00-6 M-factor acute: 100 M-factor chronic: 100 H315, H331, H335, H400, H410

Sodium diisobutyInaphthalenesulphonate

Page: 4/18

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time. Date / Revised: 08.07.2020 Version: 7.0 Date previous version: 14.07.2015 Previous version: 6.0 Product: **Signum**

(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020

Content (W/W): < 5 %	Acute Tox. 4 (Inhalation - dust)
CAS Number: 27213-90-7	Acute Tox. 4 (oral)
EC-Number: 248-326-4	Eye Dam./Irrit. 1
REACH registration number: 01-	STOT SE 3 (irr. to respiratory syst.)
2119985166-27	Aquatic Chronic 3
	H318, H335, H302 + H332, H412

Ammonium sulphate Content (W/W): < 10 % CAS Number: 7783-20-2 EC-Number: 231-984-1 REACH registration number: 01-2119455044-46

Silica gel, precipitated, crystalline free Content (W/W): < 10 % CAS Number: 112926-00-8 REACH registration number: 01-2119379499-16

Sodium sulphate

Content (W/W): < 5 % CAS Number: 7757-82-6 EC-Number: 231-820-9 REACH registration number: 01-2119519226-43

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Show container, label and/or safety data sheet to physician.

Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air.

On skin contact: Wash thoroughly with soap and water

On contact with eyes:

Page: 5/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
 Version: 7.0

 Date previous version: 14.07.2015
 Previous version: 6.0

 Product: Signum
 Version: 7.0

(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: Rinse mouth and then drink 200-300 ml of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: (Further) symptoms and / or effects are not known so far, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons: carbon dioxide

5.2. Special hazards arising from the substance or mixture

carbon monoxide, hydrogen chloride, Carbon dioxide, nitrogen oxides, halogenated compounds, sulfur oxides, silica compounds

The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Page: 6/18

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time. Date / Revised: 08.07.2020 Version: 7.0 Date previous version: 14.07.2015 Previous version: 6.0 Product: **Signum**

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Date of print 08.07.2020

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 material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up.

Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled 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

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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 Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

Page: 7/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
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 Date previous version: 14.07.2015
 Previous version: 6.0

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Date of print 08.07.2020

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.

112926-00-8: Silica gel, precipitated, crystalline free TWA value 6 mg/m3 (WEL/EH 40 (UK)), Inhalable dust TWA value 2.4 mg/m3 (WEL/EH 40 (UK)), Respirable dust

8.2. Exposure controls

Personal protective equipment

Respiratory protection: Respiratory protection not required.

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).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	granules
Colour:	brown
Odour:	smoky
Odour threshold:	-
pH value:	Not determined due to potential health hazard by inhalation. approx. 4 - 6 (CIPAC standard water D, 1 %(m),
	20 °C) (as suspension)
	(as suspension)

Page: 8/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

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 Date previous version: 14.07.2015
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Metting temperature: approx. 142 - 144 °C (OECD Guideline 102) The data given are those of the active ingredient. The product is a non-volatile solid. Flash point: not applicable Evaporation rate: not applicable Flammability: No dangerous quantities of flammabile gases will be produced by contact with water. (Directive 92/69/EEC, A.12) Lower explosion limit: 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. Upper explosion limit: 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. Upper explosion limit: 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: The product has not been tested. Density: appropriately and in accordance with the intended use. Vapour pressure: The product has not been tested. Density: appropriately and in accordance with the intended use. Vapour pressure: The product may appropriately and in accordance with the intended use. Solubility in water:	duct: Signum		(ID no. 30266621/SDS_CPA_GB/EN)
Boiling point: The product is a non-volatile solid. Flash point: not applicable Evaporation rate: not applicable Flammability: No dangerous quantities of flammable gases will be produced by contact with water. Lower explosion limit: 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. Upper explosion limit: 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. Upper explosion limit: 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. Uapour pressure: The product has not been tested. Density: approx. 1.57 g/cm3 (OECD Guideline 109) (20 °C) Relative vapour density (air): not applicable Solubility in water: dispersible Partitioning coefficient n-octanol/water (log Kow): not applicable Self ignition: Themprature: 246 °C No self ignition was observed up to A.16) the specified temperature. Thermal decomposition: 150 °C, 130 kJ/kg, (DSC (OECD 113)) (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. Viscosity, dynamic: not applicable, the product is a solid Explosion hazard: not explosive (Directive 92/69/EEC, A.14)	Melting temperature:	The data given are those of the	Date of print 08.07.2020 (OECD Guideline 102)
Flash point: inot applicable Evaporation rate: inot applicable Flammability: No dangerous quantities of flammable gases will be produced by contact with water. Lower explosion limit: 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. Upper explosion limit: 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. Upper explosion limit: 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. Uapport are the intended use. Upper explosion limit: The product has not been tested. appropriately and in accordance with the intended use. Vapour pressure: The product has not been tested. appropriately and in accordance with the intended use. Vapour pressure: The product has not been tested. appropriately and in accordance with the intended use. Vapour gensity: (air): not applicable Staff ignition: 150 °C, 130 kJ/kg, (DSC (OECD 113)) (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. Viscosity, dynamic: Not applicable, the product is a solid Explosion hazard: Not applicable, the product is a solid Explosion hazard: Not applicable, the product is a solid Explosion hazard: Not applicable, the product is a solid Not accordance is a solid Not accordance is a solid Not accordance is a solid Not applicable, the product is a solid Explosion hazard: Not applicable, the product is a solid Not accordance is a solid Not applicable is a solid Not accordance is a solid Not accordance is a solid Not accordance is a solid	Boiling point:	-	
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Viscosity, dynamic: not applicable, the product is a solid Explosion hazard: not explosive (Directive 92/69/EEC, A.14)	Thermal decomposition:	(onset temperature) 335 °C, 130 kJ/kg, (DSC (OECD 113 (onset temperature) Not a substance liable to self-decomp))
Explosion hazard: not explosive (Directive 92/69/EEC, A.14)	Viscosity, dynamic:	not applicable the graduatic state	
Fire promoting properties: not fire-propagating (Directive 92/69/EEC, A.17)	Explosion hazard: Fire promoting properties	not explosive	(Directive 92/69/EEC, A.14) (Directive 92/69/EEC, A.17)

Page: 9/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
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Date of print 08.07.2020

9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.
Bulk densitv:	656 - 754 kg/m3

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid: strong acids, strong bases, strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data: LD50 rat (oral): > 2,000 mg/kg No mortality was observed.

Page: 10/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
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LC50 rat (by inhalation): > 5.6 mg/l 4 h No mortality was observed.

LD50 rat (dermal): > 2,000 mg/kg No mortality was observed.

Irritation

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Experimental/calculated data: modified Buehler test guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide Assessment of 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 counter part. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.

Reproductive toxicity

Assessment of reproduction toxicity:

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

Page: 11/18

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time. Date / Revised: 08.07.2020 Version: 7.0 Date previous version: 14.07.2015 Previous version: 6.0 Product: **Signum**

(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020

Developmental toxicity

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: 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)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide Assessment of repeated dose toxicity: Adaptive effects were observed after repeated exposure in animal studies.

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3yloxymethyl]phenyl}(N-methoxy)carbamate Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

Information on: Silica gel, precipitated, crystalline free Assessment of repeated dose toxicity: The substance may cause damage to the lung after repeated inhalation of high doses.

Aspiration hazard

No aspiration hazard expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health.

Page: 12/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
 Version: 7.0

 Date previous version: 14.07.2015
 Previous version: 6.0

 Product: Signum
 Version: 7.0

(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Aquatic invertebrates: EC50 (48 h) 0.21 mg/l, Daphnia magna

Aquatic plants: EC50 (72 h) 10.8 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201)

EC10 (72 h) 1.8 mg/l, Pseudokirchneriella subcapitata

Information on: boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide Chronic toxicity to fish: No observed effect concentration (97 d) 0.116 mg/l, Oncorhynchus mykiss

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3yloxymethyl]phenyl}(N-methoxy)carbamate Chronic toxicity to fish: No observed effect concentration (98 d) approx. 0.00235 mg/l, Oncorhynchus mykiss (OECD Guideline 210, Flow through.)

Information on: boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide Chronic toxicity to aquatic invertebrates: No observed effect concentration (21 d) 0.8 mg/l, Daphnia magna

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3yloxymethyl]phenyl}(N-methoxy)carbamate Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 0.004 mg/l, Daphnia magna (OECD Guideline 202, part 2, semistatic)

The details of the toxic effect relate to the nominal concentration.

No observed effect concentration (28 d) 0.00128 mg/l, Mysidopsis bahia (OPP 72-4 (EPA-Guideline), Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): The product has not been tested. The statement has been derived from the properties of the individual components.

Page: 13/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
 Version: 7.0

 Date previous version: 14.07.2015
 Previous version: 6.0

 Product: Signum
 Version: 7.0

(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020

Information on: boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3yloxymethyl]phenyl}(N-methoxy)carbamate Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

12.3. Bioaccumulative potential

Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide Bioaccumulation potential:

Bioconcentration factor (BCF): 57 - 70 (28 d), Oncorhynchus mykiss Does not accumulate in organisms.

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3yloxymethyl]phenyl}(N-methoxy)carbamate Bioaccumulation potential:

Bioconcentration factor (BCF): 379 - 507, Oncorhynchus mykiss (OECD-Guideline 305) Accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments: Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide Assessment transport between environmental compartments: Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3yloxymethyl]phenyl}(N-methoxy)carbamate Assessment transport between environmental compartments: Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5. Results of PBT and vPvB assessment

Page: 14/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
 Version: 7.0

 Date previous version: 14.07.2015
 Previous version: 6.0

 Product: Signum
 Version: 7.0

(ID no. 30266621/SDS_CPA_GB/EN) Date of print 08.07.2020

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

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice: Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14: Transport Information

Land transport

ADR

UN number UN proper shipping name:	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
Special precautions for	
user:	None known

Page: 15/18

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.Date / Revised: 08.07.2020Version: 7.0Date previous version: 14.07.2015Previous version: 6.0Product: SignumVersion: 7.0

(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020

UN number UN proper shipping name:	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es): Packing group: Environmental hazards: Special precautions for user:	

Inland waterway transport ADN

UN number UN proper shipping name:	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es): Packing group: Environmental hazards: Special precautions for user:	

<u>Transport in inland waterway vessel</u> Not evaluated

Sea transport

IMDG

UN number: UN proper shipping name:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BOSCALID, PYRACLOSTROBIN)
Transport hazard class(es):	
Packing group:	
Environmental hazards:	yes
	Marine pollutant: YES
Special precautions for	None known
user:	

Air transport

IATA/ICAO

UN number:	UN 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

RID

Page: 16/18

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time. Date / Revised: 08.07.2020 Version: 7.0 Date previous version: 14.07.2015 Previous version: 6.0 Product: Signum

(ID no. 30266621/SDS CPA GB/EN)

Date of print 08.07.2020

(contains BOSCALID, PYRACLOSTROBIN) Transport hazard class(es): 9. EHSM Ш ves None known

14.1. UN number

Environmental hazards:

Special precautions for

Packing group:

user:

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

Further information

The following provisions may apply for product in packages containing a net quantity of 5 kg or less ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2). This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

Page: 17/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
 Version: 7.0

 Date previous version: 14.07.2015
 Previous version: 6.0

 Product: Signum
 Version: 7.0

(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020

SECTION 15: Regulatory Information

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

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): List entry in regulation: E1

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).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (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

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications,	including the haza	rd classes and the	hazard statements,	if mentioned
in section 2 or 3.	_			

in section 2 or 3:	
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Corr./Irrit.	Skin corrosion/irritation
STOT SE	Specific target organ toxicity — single exposure
Eye Dam./Irrit.	Serious eye damage/eye irritation
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the
	instructions for use.
H411	Toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H318	Causes serious eye damage.
H302 + H332	Harmful if swallowed or if inhaled
H412	Harmful to aquatic life with long lasting effects.

Abbreviations

Page: 18/18

 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

 Date / Revised: 08.07.2020
 Version: 7.0

 Date previous version: 14.07.2015
 Previous version: 6.0

 Product: Signum
 Version: 7.0

(ID no. 30266621/SDS_CPA_GB/EN)

Date of print 08.07.2020 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit, OECD = Organization for Economic Cooperation and Development, PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.