

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 28/02/2019 Revision date: 28/02/2019 Version: 1.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
CA Code (Nufarm)	: 2386
Product code	: R050A
Oracle Recipe Code (Nufarm)	: 60000097
Item codes	: 100005281
Product form	: Mixture
Trade name	: NANDO
Type (Nufarm)	: Country Specific
Country (Nufarm)	: Georgia
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Use of the substance/mixture	: Fungicide
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the sa	fety data sheet
Supplier Nufarm UK Ltd. Wyke Lane Wyke BD12 9EJ Bradford - UK T +44 (0)1274 691234 - F +44 (0) 12746911 msds@uk.nufarm.com	176
1.4. Emergency telephone number	
Emergency number	: +44(0)1274 691234 (24hr)
SECTION 2: Hazards identification	n
2.1. Classification of the substance	
Classification according to Regulation (E	C) No. 1272/2008 [CLP]
Skin corrosion/irritation, Category 2	H315
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361d
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410
Full text of hazard classes and H-statements	s : see section 16

Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

2.2. Label elements	
Labelling according to Regula	tion (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07 GHS08 GHS09
Signal word (CLP)	: Warning
Hazardous ingredients	: fluazinam (ISO); 3- chloro-N-[3-chloro-2,6- dinitro-4-(trifluoromethyl)phenyl]-5- (trifluoromethyl) pyridin-2-amine
Hazard statements (CLP)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction.
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	H361d - Suspected of damaging the unborn child. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P102 - Keep out of reach of children. P280 - Wear protective gloves, protective clothing, face protection, eye protection. P308+P313 - IF exposed or concerned: Get medical advice/attention. P362 - Take off contaminated clothing. P391 - Collect spillage. P405 - Store locked up.
EUH-statements	 EUH208 - Contains fluazinam (ISO); 3-chloro-N-[3- chloro-2,6-dinitro-4-(trifluor omethyl)phenyl]-5-(trifluoromethyl)pyridin-2-amine, 1,2-benzisothiazol-3(2H)-one; 1,2- benzisothiazolin-3-one. May produce an allergic reaction. EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
fluazinam (ISO); 3-chloro-N-[3- chloro-2,6-dinitro-4-(trifluor omethyl)phenyl]-5-(trifluoromethyl)pyridin-2-amine	(CAS-No.) 79622-59-6 (EC Index-No.) 612-287-00-5	40	Repr. 2, H361d Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
AMMONIUM SALT OF POLYARYLPHENYL ETHER SULPHATE	(CAS-No.) 119432-41-6	1 - 5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	< 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Specific concentration limits:			
Name	Product identifier	Specific	concentration limits

(C >= 0.05) Skin Sens. 1, H317

(CAS-No.) 2634-33-5

(EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6

Full text of H-statements: see section ?	16

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effective statements and effective sta	fects, both acute and delayed
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.
4.3. Indication of any immediate med	ical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the s	ubstance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Chlorine. Carbon monoxide. Carbon dioxide. Hydrogen chloride.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing spray, mist.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containm	nent and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing spray, mist.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
Packaging materials	: Keep only in the original container in a cool, well-ventilated place away from combustible materials

7.3. Specific end use(s)

Fungicide.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

No additional information available

8.2. **Exposure controls**

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Protective clothing. Safety glasses. Gloves.

Hand protection:

Nitrile rubber gloves. PVC gloves

Eye protection:

materials.

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Safety glasses. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: Yellow.	
Odour	: odourless.	
Odour threshold	: No data available	
рН	: 7.95	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available.	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: >400 °C	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 1.251 g/ml 20°C	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data	
Viscosity, dynamic	: Viscous	
Explosive properties	: Product is not explosive.	
Oxidising properties	: Non oxidizing material according to EC criteria.	
Explosive limits	: No data available	
9.2. Other information		
No additional information available		

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9.2. Other information
No additional information available
SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7). flames.
10.5. Incompatible materials
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Oxidizing agent. Strong acids. Strong bases.

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Combustion generates: Carbon dioxide. Carbon monoxide. Chlorine. Hydrogen chloride. Nitrogen oxides.

SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
NANDO	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 0.967 mg/l/4h
fluazinam (ISO); 3-chloro-N-[3- chloro-2,6-dir	itro-4-(trifluor omethyl)phenyl]-5-(trifluoromethyl)pyridin-2-amine (79622-59-6)
LD50 oral rat	> 4100 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 1.1 mg/l/4h
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothia	izolin-3-one (2634-33-5)
LD50 oral rat	670 - 784 mg/kg
LD50 dermal rat	> 2000 mg/kg
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Skin irritation. rabbit
	pH: 7.95
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 7.95
Respiratory or skin sensitisation	: Skin sensitisation. Guinea pig
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

: Very toxic to aquatic life with long lasting effects.
: Very toxic to aquatic life.
: Very toxic to aquatic life with long lasting effects.
0.14 mg/l Oncorhynchus mykiss (Rainbow trout)
0.042 mg/l
0.11 mg/l
itro-4-(trifluor omethyl)phenyl]-5-(trifluoromethyl)pyridin-2-amine (79622-59-6)
0.055 mg/l Lepomis macrochirus (Bluegill)
0.22 mg/l
0.16 mg/l
Not readily biodegradable.
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2.4. Mobility in soil NANDO Mobility in soil Low mobility (soil) 2.5. Results of PBT and vPvB assessment NANDO This substance/mixture does not meet the VPvB oriteria of REACH regulation, annex XIII This substance/mixture does not meet the VPvB oriteria of REACH regulation, annex XIII 2.6. Other adverse effects Bo additional information available SECTION 13: Disposal considerations 3.1. Waste treatment methods 2.1. Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. Surgersen List of Waste (LoW) code : 0 2 0108* - agrochemical waste containing dangerous substances SECTION 14: Transport information naccordance with ADR / RID / IMDG / IATA / ADN ADR IMDG IATA 4.1. UN number 3082 3082 082 3082 3082 2.1.WIRONMENTALLY HAZARDOUS ENVIRONMENTALLY HAZARDOUS Environmentally hazardous substance, liquid, n.o.s. ((FLUAZINAM)) IN 3082 EnvirRONMENTALLY HAZARDOUS UN 3082 EnvirRONMENTALLY HAZARDOUS UN 3082 EnvirRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((FLUAZINAM)) UN 3082 EnvirRONMENTALLY HAZARDOUS UN 3082 EnvirRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((FLUAZINAM)) UN 3082 EnvirRONMENTALLY HAZARDOUS UN 3082 EnvirRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((FLUAZINAM)), 9, III. (AARINE POLLUTANT<	fluazinam (ISO); 3-chloro-N-[3- chloro-2,6-dinitro-4-(trifluor omethyl)phenyl]-5-(trifluoromethyl)pyridin-2-amine (79622-59-6)			
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Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT

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according to Regulation (EC) No. 1907/2006 (REACH)	with its amendment Regulation
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	90 3082
Tunnel restriction code (ADR)	: -
EAC code	: •3Z
- Transport by sea	
Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Air transport	
- Air transport PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
	: 450L
PCA max net quantity (IATA) CAO packing instructions (IATA)	: 450∟ : 964
	: 964 : 450L
CAO max net quantity (IATA) Special provisions (IATA)	
1 1 ()	: A97, A158, A197 : 9L
ERG code (IATA)	. 9L

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference	 Water hazard class (WGK) 3, Highly hazardous to water (Classification according to VwVwS Annex 4) 	3,
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)	
Netherlands		
SZW-lijst van kankerverwekkende stoffen	None of the components are listed	
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SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	 fluazinam (ISO); 3-chloro-N-[3- chloro-2,6-dinitro-4-(trifluor omethyl)phenyl]-5- (trifluoromethyl)pyridin-2-amine is listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
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.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains . May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

NUFARM SDS TEMPLATE

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product