

Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

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

1.1 Product identifier

Trade name : Super Floranid® Twin Turf BS 20-5-10

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

: Fertiliser

Use of the Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company	: COMPO EXPERT GmbH Krögerweg 10 D-48155 Münster
Telephone	: +49 (0) 251 29 79 81 - 000
Telefax	: +49 (0) 251 29 79 81 - 111
E-mail address of person responsible for the SDS	: info@compo-expert.com

1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h Telephone: +49 (0) 6132 - 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements	:		Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Supplemental Hazard Statements	:	EUH210	Safety data sheet available on request.
Further information	:		ardous Substances" legislation (rordnung) appendix I, No. 5 (Ammonium C III)



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27- XXXX	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 10 - <= 45

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Wash hands with water as a precaution.		
If inhaled	 Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Obtain medical attention. In case of lung irritation, first treatment with dexametason aerosol (spray). 		
In case of skin contact	: Wash off with plenty of water.		
In case of eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.		
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Call a physician immediately.		
4.2 Most important symptoms and effects, both acute and delayed			

Symptoms	: Ingestion may provoke the following symptoms:
	Methaemoglobinemia
	Inhalation of decomposition products in high concentration
	may cause shortness of breath (lung oedema).



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Water
Unsuitable extinguishing media	: Foam Dry chemical Carbon dioxide (CO2) Sand

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	 Can decompose at above 100 °C. Thermal decomposition products: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia Isobutyraldehyd
Advice for firefighters	

5.3 Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protect Personal precautions	ctive equipment and emergency procedures : Keep away from children.
6.2 Environmental precautions	
Environmental precautions	: Do not flush into surface water or sanitary sewer system. Retain and dispose of contaminated wash water.
6.3 Methods and material for co	ntainment and cleaning up
Methods for cleaning up	: Use mechanical handling equipment.
6.4 Reference to other sections	
none	

SECTION 7: Handling and storage

7.1 Precautions for safe handling



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

Advice on safe handling	: Protect from contamination. Keep away from direct sunlight. Protect against heat. Protect from moisture.
Advice on protection against fire and explosion	: The product is not flammable. Keep away from sources of ignition - No smoking. Keep away from combustible materials. Keep away from heat. Risk of explosion if heated under confinement.
Hygiene measures	: Wash hands before breaks and at the end of workday.
7.2 Conditions for safe storage,	including any incompatibilities
Requirements for storage areas and containers	: When stored loose do not mix with other fertilizers. Store well away from other substances. Keep away from direct sunlight. Protect against heat. Protect from contamination. Protect from moisture.
	away from other substances. Keep away from direct sunlight. Protect against heat. Protect from contamination. Protect from

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m3
	Workers	Skin contact	Long-term systemic effects	5,12 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2,56 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8,9 mg/m3
	Consumers	Skin contact,	Long-term systemic	2,56 mg/kg



Revision Date:

11.04.2024

Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022

	Ingestion effects	bw/day
Predicted No Effect Conce	ntration (PNEC) according to Regulation (
Substance name	Environmental Compartment	Value
ammonium nitrate	Sewage treatment plant	18 mg/l
.2 Exposure controls		
Personal protective equipm	ent	
Eye protection	: In case of dust formation:	
	Tightly fitting safety goggles	
Hand protection Material	: Gloves	
Skin and body protection	: No special protective equipment requi	red.
Respiratory protection	: Breathing apparatus only if aerosol or	dust is formed.
Environmental exposure co	itrols	
General advice	: Do not flush into surface water or sani Retain and dispose of contaminated w	
ECTION 9: Physical and ch	emical properties	
1 Information on basic physic	al and chemical properties	
Physical state	: granular	
Colour	: various	
Odour	: odourless	
Odour Threshold	: No data available	
рН	: ca. 6,2, Concentration: 100 g/l (20 °C)	
Melting point/range	: No data available	



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022

Boiling point/boiling range	: Not applicable
Flash point	: Not relevant
Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Bulk density	: ca. 860 kg/m³
Solubility(ies) Water solubility	: soluble
Partition coefficient: n- octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Viscosity Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

Decomposes on heating.			
10.3 Possibility of hazardous reactio	ns		
Hazardous reactions :	Evolution of ammonia under influence of alkalies.		
10.4 Conditions to avoid			
Conditions to avoid :	Keep away from heat and sources of ignition.		
10.5 Incompatible materials			
Materials to avoid :	oxidizable substances Strong acids and strong bases		
10.6 Hazardous decomposition products			
Hazardous decomposition : products	Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia Isobutyraldehyd		

SECTION 11: Toxicological information

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

: Remarks: Based on available data, the classification criteria are not met.
: Remarks: Based on available data, the classification criteria are not met.
: LD50 (Rat): > 2.950 mg/kg Method: OECD Test Guideline 401
: > 88,8 mg/l Method: No information available.
: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks: Based on available data, the classification criteria are not met.

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Super Floranid® Twin Turf BS 20-5-10



Revision Date:

11.04.2024

Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022

Components:

ammonium nitrate: Species: Rabbit Method: OECD Test Guideline 404 Result: non-irritant

Serious eye damage/eye irritation

Product:

Species: Rabbit Method: OECD Test Guideline 405 Result: non-irritant Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

Components:

ammonium nitrate: Species: Rabbit Method: OECD Test Guideline 405 Result: Irritant

Respiratory or skin sensitisation

Product:

Remarks: Based on available data, the classification criteria are not met.

Components:

ammonium nitrate:

Result: Does not cause skin sensitisation.

germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Remarks: Based on available data, the classification criteria
		are not met.

Components:

ammonium nitrate:		
Genotoxicity in vitro	:	Method: OECD Test Guideline 471
		Result: negative

Carcinogenicity

Product:

Remarks: Based on available data, the classification criteria are not met.



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

Components:	
ammonium nitrate: Species: Rat Remarks: Animal testing did	not show any carcinogenic effects.
Reproductive toxicity	
<u>Product:</u> Effects on fertility	: Remarks: Based on available data, the classification criteria are not met.
<u>Components:</u> ammonium nitrate: Effects on fertility	: Species: Rat
Effects on foetal development	 Remarks: Animal testing did not show any effects on fertility. Species: Rat Remarks: Did not show teratogenic effects in animal experiments.

STOT - single exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

Repeated dose toxicity

Components:

ammonium nitrate: Species: Rat NOAEL: > 1.500 mg/kg Application Route: Oral Exposure time: 28 d

Species: Rat NOAEL: = 256 mg/kg Application Route: Oral Exposure time: 52 w Method: OECD Test Guideline 453

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Super Floranid® Twin Turf BS 20-5-10



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

Species: Rat NOAEL: >= 185 mg/kg Application Route: by inhalation Exposure time: 2 w Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Further information

Product:

Remarks: Danger of methaemoglobin formation. The product was not tested. The statement was derived from products of similar structure and composition.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: Directive 84/449/EEC, C.2
Toxicity to algae	 EC50 (Scenedesmus subspicatus): > 100 mg/l Exposure time: 72 h Method: DIN 38412
<u>Components:</u> ammonium nitrate:	
Toxicity to fish	: LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): 490 mg/l Exposure time: 48 h



Revision Date:

11.04.2024

Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022

			LC50 : 490 mg/l
	Toxicity to algae	:	EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l Exposure time: 10 d
12.	2 Persistence and degradabilit	y	
	Product:		
	Biodegradability	:	Remarks: No data available
	Physico-chemical removability	:	DOC reduction ca. 85 % Method: OECD 301E/92/69/EWG, C.4-B Remarks: Readily eliminated from water
	Components:		
	ammonium nitrate:		
	Biodegradability	:	Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.
12.	3 Bioaccumulative potential		
	Product:		
	Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
	Components:		
	ammonium nitrate:		
	Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
	Partition coefficient: n- octanol/water	:	log Pow: -3,1
12.	4 Mobility in soil		
	Product:		
	Mobility	:	Remarks: No data available
	Distribution among environmental compartments	:	Remarks: Moderately mobile in soils
12.	5 Results of PBT and vPvB as	ses	ssment
	Product:		
	Assessment	:	Remarks: Not applicable



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information	 Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
	There is a high probability that the product is acute not harmful to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	: Do not flush into surface water or sanitary sewer system. Dispose of in accordance with local regulations.
Contaminated packaging	 Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport information

14.1 UN number or ID number Not regulated as a dangerous good 14.2 UN proper shipping name Not regulated as a dangerous good 14.3 Transport hazard class(es) Not regulated as a dangerous good 14.4 Packing group Segregation group : : : (-) Not regulated as a dangerous good 14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High : Not listed Concern for Authorisation (Article 59).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water hazard class (Germany)	:	WGK 1 slightly hazardous to water
Other regulations	:	This product is subject to Regulation (EU) 2019/1148; suspicious transactions, disappearance or theft of the product must be reported to the relevant authority.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this product.

SECTION 16: Other information

Full	text	of	H-Statements
I UII	ICAL	UI.	II-Statements

H272 H319	May intensify fire; oxidizer.Causes serious eye irritation.
H319	: Causes serious eye irritation

Full text of other abbreviations

Eye Irrit.	:	Eye irritation
Ox. Sol.	:	Oxidizing solids

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Super Floranid® Twin Turf BS 20-5-10



Version: 1.2 Date of last issue: 14.01.2024 Date of first issue: 25.07.2022 Revision Date: 11.04.2024

Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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