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

1.1 Product identifier

Trade name : Floranid Twin Eagle NK

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

Use of the Substance/Mixture : Fertilizer

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 : German "Hazardous Substances" legislation (Gefahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate group C III)

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2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : NK - fertilizer contains:
N,N''-(isobutylidene)diurea
6-methyl-2-oxoperhydropyrimidin-4-ylurea
trace elements
Mixture of inorganic salts

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 |
| N,N''-(isobutylidene)diurea | 6104-30-9 228-055-8 01-2119457269-28-XXXX | | >= 10 - <= 45 |
| iron sulphate | 7720-78-7 231-753-5 01-2119513203-57-XXXX | Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Acute toxicity estimate Acute oral toxicity: 500 mg/kg | >= 1 - <= 3 |

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| | | | |
|---|--|--------------------|--------------------|
| 6-methyl-2-oxoperhydropyrimidin-4-ylurea | 1129-42-6 214-447-6 01-2119983389-17-0000 | | $\geq 6 - \leq 18$ |
| disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-) | 14025-15-1 237-864-5 05-2114842509-41-0000 | Acute Tox. 4; H302 | $\leq 0,5$ |

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).

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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

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, protective equipment and emergency procedures

Personal precautions : 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 containment 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

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- 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, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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.
- Storage class (TRGS 510) : 5.1C, Ammonium nitrate and ammonium nitrate containing preparations
- Dampness : Keep in a dry place.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--|------------|-------------------------------|------------------------------|---------|
| iron sulphate | 7720-78-7 | TWA | 1 mg/m ³ (Iron) | GB EH40 |
| disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON'] cuprate(2-) | 14025-15-1 | TWA | 1 mg/m ³ (Copper) | GB EH40 |

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 | 36 mg/m ³ |

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| | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------------|-------------------|
| | | | effects | |
| | 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, Ingestion | Long-term systemic effects | 2,56 mg/kg bw/day |
| N,N''-(isobutylidene)diurea | Workers | Skin contact | systemic effects | 37,5 mg/m3 |
| Remarks: | Continuous exposure | | | |
| | Workers | Inhalation | systemic effects | 66,12 mg/m3 |
| Remarks: | Continuous exposure | | | |
| | Consumers | Skin contact | systemic effects | 18,75 mg/m3 |
| Remarks: | Continuous exposure | | | |
| | Consumers | Inhalation | systemic effects | 16,31 mg/m3 |
| Remarks: | Continuous exposure | | | |
| | Consumers | Ingestion | systemic effects | 9,375 mg/m3 |
| Remarks: | Continuous exposure | | | |
| iron sulphate | Workers | Skin contact | Acute effects, systemic effects | 2,8 mg/kg |
| Remarks: | Exposure time: 24 h | | | |
| | Workers | Inhalation | Acute effects, systemic effects | 9,9 mg/m3 |
| | Workers | Skin contact | Chronic effects, systemic effects | 2,8 mg/kg |
| Remarks: | Exposure time: 24 h | | | |
| | Workers | Inhalation | Chronic effects, systemic effects | 9,9 mg/m3 |

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| | | | | |
|----------|---------------------|--------------|--------------------------------------|-----------|
| | Consumers | Ingestion | Acute effects, systemic effects | 1,4 mg/kg |
| Remarks: | Exposure time: 24 h | | | |
| | Consumers | Skin contact | Acute effects, systemic effects | 1,4 mg/kg |
| Remarks: | Exposure time: 24 h | | | |
| | Consumers | Inhalation | Acute effects, systemic effects | 2,5 mg/m3 |
| | Consumers | Ingestion | systemic effects, Chronic effects | 1,4 mg/kg |
| Remarks: | Exposure time: 24 h | | | |
| | Consumers | Skin contact | Chronic effects, systemic effects | 1,4 mg/kg |
| Remarks: | Exposure time: 24 h | | | |
| | Consumers | Inhalation | Chronic effects, systemic effects | 2,5 mg/m3 |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|----------------------------|---|--------------|
| ammonium nitrate | Sewage treatment plant | 18 mg/l |
| N,N"-(isobutylidene)diurea | Fresh water | 0,5 mg/l |
| | Marine water | 0,05 mg/l |
| | Fresh water sediment | 1,76 mg/l |
| | Marine sediment | 0,176 mg/l |
| | Soil | 10,7 mg/l |
| | Behaviour in waste water treatment plants | 640 mg/l |
| iron sulphate | Water | |
| Remarks: | This product has no known ecotoxicological effects. | |
| | Behaviour in waste water treatment plants | 2483 mg/l |
| | Fresh water sediment | 246000 mg/kg |

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| | | |
|--|-----------------|--------------|
| | Marine sediment | 246000 mg/kg |
| | Soil | 276000 mg/kg |

8.2 Exposure controls

Personal protective equipment

Eye protection : In case of dust formation:
Tightly fitting safety goggles

Hand protection
Material : Gloves

Skin and body protection : No special protective equipment required.

Respiratory protection : respiratory protection only if aerosol or dust is formed.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : granular
Colour : various
Odour : odourless
Odour Threshold : No data available
pH : ca. 6,2, Concentration: 100 g/l (20 °C)
Melting point/range : No data available
Boiling point/boiling range : Not applicable

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| | |
|--|---|
| 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/m ³ |
| Solubility(ies) | |
| Water solubility | : soluble |
| Partition coefficient: n-octanol/water | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : > 130 °C To avoid thermal decomposition, do not overheat. |
| Viscosity | |
| Viscosity, dynamic | : Not applicable |
| Viscosity, kinematic | : Not applicable |
| Explosive properties | : Not explosive |
| Oxidizing properties | : Not applicable |
| Particle characteristics | |
| Particle Size Distribution | : D50 = 1,1 mm D50 Tolerance range = 0,8 mm - 1,4 mm Measurement technique: Optoelectronic measurement method |

9.2 Other information

No data available

SECTION 10: Stability and reactivity

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10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

Decomposes on heating.

10.3 Possibility of hazardous reactions

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

Acute toxicity

Product:

Acute oral toxicity : Remarks: No data available
Health injuries are not known or expected under normal use.

Acute dermal toxicity : Remarks: No data available
Health injuries are not known or expected under normal use.

Components:

ammonium nitrate:

Acute oral toxicity : LD50 (Rat): > 2.950 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : > 88,8 mg/l
Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 402

N,N"-(isobutylidene)diurea:

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Acute oral toxicity : LD50 (Rat): > 10.000 mg/kg
Remarks: Calculation method

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402

iron sulphate:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401

LD50 (Rat): 657 - 4.390 mg/kg
Method: Calculation method

Acute toxicity estimate: 500 mg/kg
Method: Converted acute toxicity point estimate

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : LD50 (Rat): > 1.992 mg/kg
Method: Converted acute toxicity point estimate

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):

Acute oral toxicity : LD50 Oral (Rat): > 1.750 mg/kg

Skin corrosion/irritation

Product:

Result: non-irritant

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

iron sulphate:

Method: OECD Test Guideline 404

Result: Skin irritation

Remarks: Irritating to skin and mucous membranes

Serious eye damage/eye irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 405

Result: non-irritant

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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

iron sulphate:

Method: OECD Test Guideline 405

Result: Eye irritation

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

ammonium nitrate:

Result: Does not cause skin sensitisation.

N,N''-(isobutylidene)diurea:

Species: Mouse

Method: OECD Guideline 429

Result: Did not cause sensitisation on laboratory animals.

iron sulphate:

Method: OECD TG 429

Result: Did not cause sensitisation on laboratory animals.

germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Components:

ammonium nitrate:

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

N,N''-(isobutylidene)diurea:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

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Carcinogenicity

Product:

Remarks: Contains no ingredient listed as a carcinogen

Components:

ammonium nitrate:

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

N,N''-(isobutylidene)diurea:

Remarks: Animal testing did not show any carcinogenic effects.

iron sulphate:

Carcinogenicity - : Did not show carcinogenic, teratogenic or mutagenic effects in
Assessment animal experiments.

Reproductive toxicity

Product:

Effects on fertility :
Remarks: No toxicity to reproduction
The product has not been tested. The information is derived
from the properties of the individual components.

Components:

ammonium nitrate:

Effects on fertility : Species: Rat
Remarks: Animal testing did not show any effects on fertility.

Effects on foetal : Species: Rat
development Remarks: Did not show teratogenic effects in animal
experiments.

N,N''-(isobutylidene)diurea:

Effects on fertility :
Remarks: Animal testing did not show any effects on fertility.

Effects on foetal : Remarks: Did not show teratogenic effects in animal
development experiments.

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single

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exposure.

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

N,N''-(isobutylidene)diurea:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

N,N''-(isobutylidene)diurea:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

iron sulphate:

Remarks: No known effect.

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

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.

iron sulphate:

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Species: Rat

NOAEL: 284 - 324 mg/kg

Application Route: Oral

Exposure time: 90 d

Remarks: Information given is based on data obtained from similar substances.

Species: Rat

NOAEL: 100 mg/kg

Application Route: Oral

Exposure time: 49 d

Application Route: by inhalation

Remarks: This information is not available.

Application Route: Dermal

Remarks: This information is not available.

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 |

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Components:

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
LC50 : 490 mg/l
- Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l
Exposure time: 10 d

N,N'-(isobutylidene)diurea:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): ca. 500 mg/l
Exposure time: 48 h
Method: Directive 84/449/EEC, C.2
- Toxicity to algae : EC50 (Scenedesmus subspicatus): > 500 mg/l
Exposure time: 72 h
Method: DIN 38412
- Toxicity to bacteria : EC0 (Pseudomonas putida): ca. 640 mg/l

iron sulphate:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):

- Toxicity to fish : LC50 (Fish): > 100 mg/l
- Toxicity to algae : EC50 : 30 mg/l
Exposure time: 96 h

12.2 Persistence and degradability

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

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Components:

ammonium nitrate:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

N,N''-(isobutylidene)diurea:

Biodegradability : Remarks: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

iron sulphate:

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

N,N''-(isobutylidene)diurea:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

iron sulphate:

Bioaccumulation : Remarks: Accumulation in aquatic organisms is unlikely.

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Components:

iron sulphate:

Distribution among environmental compartments : Medium:Soil
Remarks: immobile

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: Not applicable

Components:

N,N''-(isobutylidene)diurea:

Assessment : Remarks: Not applicable

iron sulphate:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

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 : Check if agriculture use is possible.
Contact manufacturer.

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

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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

Remarks : Not relevant

SECTION 15: Regulatory information

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

Water contaminating class : WGK 1 slightly water endangering
(Germany)

Other regulations : TRGS 511 'Ammonium nitrate'

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

H272 : May intensify fire; oxidizer.
H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Irrit. : Eye irritation
Ox. Sol. : Oxidizing solids
Skin Irrit. : Skin irritation

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Floranid Twin Eagle NK



Version: 2.12

Date of last issue: 06.04.2023

Date of first issue: 21.03.2016

Revision Date:

23.05.2023

Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; 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; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; 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; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

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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