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

#### 1.1 Product identifier

Trade name

: Floranid Twin Club

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

Use of the Sub-	:	Fertilizer
stance/Mixture		

#### 1.3 Details of the supplier of the safety data sheet

Company	: COMPO EXPERT GmbH Kroegerweg 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

Quality / Safety / Environment Telephone:+49 (0) 2151 - 579 - 0

#### **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 ac- cording to Regulation (EC) No. 1272/2008.		
Further information	:	German "Hazardous Substances" legislation (Ge- fahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate group C III)		

#### 2.3 Other hazards

None known.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature

: Fertilizer

NPK - fertilizer contains:N,N'-(2-Methylpropyliden)-bis-urea,



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ammonium nitrate, potasium salt, ammonium salt, phosphate, magnesium salt, calcium salt, trace element combination.

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	>= 1 - < 10
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	<= 5
Borates, tetra sodium salts, pen- tahydrate	12179-04-3 215-540-4 01-2119490790-32- XXXX	Repr. 1B; H360FD Eye Irrit. 2; H319	<= 1

#### Hazardous components

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	<ul> <li>Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.</li> <li>Obtain medical attention.</li> <li>In case of lung irritation, first treatment with dexametason aerosol (spray).</li> </ul>
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:

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Methaemoglobinemia Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema).
medical attention and special treatment needed : Treat symptomatically.
sures
: Water
-
: Foam Dry chemical
Carbon dioxide (CO2)
Sand
the substance or mixture
: Can decompose at above 100 °C. Thermal decomposition
products:
Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammo- nia
Isobutyraldehyd
: In the event of fire, wear self-contained breathing apparatus.
: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
se measures
tive equipment and emergency procedures
: Keep away from children.
: Do not flush into surface water or sanitary sewer system.
Retain and dispose of contaminated wash water.
ntainment and cleaning up
: Use mechanical handling equipment.



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### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling	
Advice on safe handling	<ul> <li>Protect from contamination.</li> <li>Keep away from direct sunlight.</li> <li>Protect against heat.</li> <li>Protect from moisture.</li> </ul>
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, in	cluding 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	
Borates, tetra so- dium salts, pen- tahydrate			3 mg/m3	DE TRGS 900	
Peak-limit: excur- sion factor (catego- ry)	8;(II)				
Further information	element conte	ent of the correspond	nces, The threshold value is ling metal., When there is co /alues, there is no risk of har	mpliance with	
		AGW	0,5 mg/m3 (Borate)	DE TRGS 900	
Peak-limit: excur- sion factor (catego- ry)	2;(l)			·	
Further information	Commission f	or dangerous substa	ances, The threshold value is	based on the	



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	oorn child	1 m	ng/m3	ACGIHTLV		
Contains no substance	es with occupation	al exposure limit val	ues.			
Derived No Effect Lev	vel (DNEL) accor	ding to Regulation	(EC) No. 1907/2006:			
Substance name	End Use	Exposure routes	Potential health ef- fects	Value		
ammonium nitrate	Workers	Inhalation	Specific effects	36 mg/m3		
Remarks:	Exposure time:	1 d				
	Workers	Skin contact	Specific effects	5,12 mg/kg		
Remarks:	Exposure time:	1 d				
	Consumers	Ingestion	Specific effects	2,56 mg/kg bw/day		
Remarks:	Exposure time:	1 d				
	Consumers		Specific effects	8,9 mg/m3		
Remarks:	Exposure time:	Exposure time: 1 d				
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 exp	Continuous exposure				
iron sulphate	Workers	Skin contact	Acute effects, system- ic effects	2,8 mg/kg		
Remarks:	Exposure time: 24 h					
	Workers	Inhalation	Acute effects, system- ic effects	9,9 mg/m3		
	Workers	Skin contact	Chronic effects, sys- temic effects	2,8 mg/kg		
Remarks:	Exposure time:	24 h				
	Workers	Inhalation	Chronic effects, sys- temic effects	9,9 mg/m3		

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

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

Substance name		Environmental Compartment	Value
ammonium nitrate		Fresh water	0,45 mg/l
		Marine water	0,045 mg/l
		Ceiling Limit Value	4,5 mg/l
N,N"-(isobutylidene)diur	ea	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 produ		ict has no known ecotoxicological effects.	
		Behaviour in waste water treatment plants	2483 mg/l
		Fresh water sediment	246000 mg/kg
		Marine sediment	246000 mg/kg
		Soil	276000 mg/kg
		A	

#### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : In case of dust formation:

Respiratory protection

Skin



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Version: 1.4 Tightly fitting safety goggles Hand protection Material : Gloves

and body protection	:	No special protective equipment required.

# Environmental exposure controls

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

: Breathing apparatus only if aerosol or dust is formed.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance		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
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

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ammo-

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

#### 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. Decomposes on heating.

10.3 Possibility of hazardou	is 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	<b>i</b>
Materials to avoid	: oxidizable substances Strong acids and strong bases
10.6 Hazardous decomposi	tion products
Hazardous decompositic products	n : Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, a nia

# Isobutyraldehyd

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product:

Acute oral toxicity

: LD50 (Rat): > 2.000 mg/kg



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Acute dermal toxicity	: Remarks: No data available Contains no hazardous ingredients according to GHS 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
<b>N,N''-(isobutylidene)diurea:</b> 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
<b>iron sulphate:</b> Acute oral toxicity	<ul> <li>LD50 (Rat): &gt; 2.000 mg/kg Method: OECD Test Guideline 401</li> <li>LD50 (Rat): 657 - 4.390 mg/kg Method: Calculation method</li> </ul>
	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
Borates, tetra sodium salts, Acute oral toxicity	<b>pentahydrate:</b> : LD50 (Rat): 3.200 - 3.400 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 2,0 mg/l Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rabbit): > 2.000 mg/kg
Skin corrosion/irritation	

#### Product:

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



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#### 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

#### Borates, tetra sodium salts, pentahydrate:

Species: Rabbit Result: No skin irritation

#### Serious eye damage/eye irritation

#### Product:

Species: Rabbit Method: OECD Test Guideline 405 Result: non-irritant

#### **Components:**

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

#### iron sulphate:

Method: OECD Test Guideline 405 Result: Eye irritation

#### Borates, tetra sodium salts, pentahydrate:

Species: Rabbit Assessment: Irritant Result: Moderate eye irritation

#### Respiratory or skin sensitisation

# Product:

Result: non-sensitizing

#### 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.



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#### iron sulphate: Method: OECD TG 429 Result: Did not cause sensitisation on laboratory animals.

#### Borates, tetra sodium salts, pentahydrate:

Test Type: Buehler Test Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

#### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro	:	Remarks: No data available
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#### 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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#### Borates, tetra sodium salts, pentahydrate:

Germ cell mutagenicity- As- : In vitro tests showed mutagenic effects sessment

#### 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 - Assess-	:	Did not show carcinogenic, teratogenic or mutagenic effects in
ment		animal experiments.

#### Borates, tetra sodium salts, pentahydrate:

Carcinogenicity - Assess- : Carcinogenicity classification not possible from current data. ment

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Reproductive toxicity		
Product: Effects on fertility	:	Remarks: No toxicity to reproduction
Effects on foetal develop- ment	:	Remarks: Contains no ingredient listed as toxic to reproduc- tion
Components:		
ammonium nitrate: Effects on fertility	:	Species: Rat
		Remarks: Animal testing did not show any effects on fertility.
Effects on foetal develop- ment	:	Species: Rat Remarks: Did not show teratogenic effects in animal experi- ments.
<b>N,N''-(isobutylidene)diurea:</b> Effects on fertility	:	Remarks: Animal testing did not show any effects on fertility.
Effects on foetal develop- ment	:	Remarks: Did not show teratogenic effects in animal experiments.
Borates, tetra sodium salts, p Reproductive toxicity - As- sessment		<b>ntahydrate:</b> In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance. May damage fertility. May damage the unborn child.

#### STOT - single exposure

#### Product:

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

#### **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.

#### **Components:**

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#### 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:

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.

#### **Further information**

#### Product:

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

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SECTION 12: Ecological information				
12.1 Toxicity				
Product:				
Toxicity to fish	<ul> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): &gt; 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203</li> </ul>			
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>EC50 (Daphnia magna (Water flea)): &gt; 100 mg/l Exposure time: 48 h Method: Directive 84/449/EEC, C.2</li> </ul>			
Toxicity to algae	: EC50 (Scenedesmus subspicatus): > 100 mg/l Exposure time: 72 h Method: DIN 38412			
Toxicity to bacteria	: EC0 (Pseudomonas putida): ca. 640 mg/l Exposure time: 16 h Test Type: activated sludge Method: No data available			
<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			
	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	<ul> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): &gt; 1.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203</li> </ul>			
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			



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<b>iron sulphate:</b> Ecotoxicology Assessment Acute aquatic toxicity	: This product has no known ecotoxicological effects.
Borates, tetra sodium salts,	pentahydrate:
Toxicity to fish	: LC50 (dab): 74 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 242 mg/l Exposure time: 24 h
Toxicity to algae	: EC10 (Scenedesmus subspicatus): 24 mg/l Exposure time: 96 h
12.2 Persistence and degradabil	ity
Product:	
Biodegradability	: Remarks: No data available
Physico-chemical removabil- ity	: DOC reduction ca. 85 % Method: OECD 301E/92/69/EWG, C.4-B Remarks: Readily eliminated from water
<u>Components:</u> ammonium nitrate:	
Biodegradability	: Remarks: The methods for determining the biological degra- dability are not applicable to inorganic substances.
N,N"-(isobutylidene)diurea:	
Biodegradability	: Remarks: The product is miscible in water and readily biode- gradable in both water and soil. Accumulation is not expected.
iron sulphate:	
Biodegradability	: Remarks: The methods for determining the biological degra- dability are not applicable to inorganic substances.
12.3 Bioaccumulative potential	
Product:	
Bioaccumulation	: Remarks: Bioaccumulation is unlikely.
<u>Components:</u> ammonium nitrate: Bioaccumulation	: Remarks: Bioaccumulation is unlikely.
Partition coefficient: n- octanol/water	: log Pow: -3,1



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<b>N,N''-(isobutylidene)diurea:</b> Bioaccumulation	: Remarks: Bioaccumulation is unlikely.	
<b>iron sulphate:</b> Bioaccumulation	: Remarks: Accumulation in aquatic organisms	is unlikely.
12.4 Mobility in soil		
Product:		
Mobility	: Remarks: No data available	
Distribution among environ- mental compartments	: Remarks: Moderately mobile in soils	
<u>Components:</u> iron sulphate: Distribution among environ- mental compartments	: Medium:Soil Remarks: immobile	
2.5 Results of PBT and vPvB as	sessment	
Product:		
Assessment	: Remarks: Not applicable	
<u>Components:</u> N,N"-(isobutylidene)diurea: Assessment	: Remarks: Not applicable	
iron sulphate: Assessment	: This substance is not considered to be very povery bioaccumulating (vPvB) This substance ered to be persistent, bioaccumulating and to	is not consid-
2.6 Other adverse effects		
Product:		
Additional ecological infor- mation	<ul> <li>Inhibition of degradation activity in activated sibe anticipated during correct introduction of lotions.</li> <li>There is a high probability that the product is a ful to aquatic organisms.</li> </ul>	w concentra-

13.1 Waste treatment methods	
Product	: Check if agriculture use is possible. Contact manufacturer.
Contaminated packaging	: Contaminated packaging should be emptied as far as possi-

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ble; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport inf	ormation
14.1 UN number	
Not regulated as a dangero	bus good
14.2 UN proper shipping name	e
Not regulated as a dangero	bus good
14.3 Transport hazard class(e	s)
Not regulated as a dangero	bus good
14.4 Packing group	
Not regulated as a dangero	bus good
14.5 Environmental hazards	
Not regulated as a dangero	bus good
14.6 Special precautions for u	Iser
Not applicable	
14.7 Transport in bulk accord	ing to Annex II of MARPOL 73/78 and the IBC Code
Remarks	: Not relevant
SECTION 15: Regulatory in	formation
• •	nmental regulations/legislation specific for the substance or mix

Water contaminating class<br/>(Germany): WGK 1 slightly water endangering<br/>to slightly water endangering<br/>: TRGS 511 'Ammonium nitrate'

#### **15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this product.

#### **SECTION 16: Other information**

Full text of H-Statements				
H302 : H315 : H319 :	May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May damage fertility. May damage the unborn child.			
Full text of other abbreviations				
Eye Irrit.:Ox. Sol.:Repr.:	Acute toxicity Eye irritation Oxidizing solids Reproductive toxicity Skin irritation			

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

DE / EN

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