

:

Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product form : Mixture	
Product name : WS NPK 20-20-20+TE	
Type of product : Fertilizer	
Product group : Blend	
1.2. Relevant identified uses of the substance or mixture and uses advised against	
1.2.1. Relevant identified uses	
Industrial/Professional use spec : Industrial	
1.2.2. Uses advised against	
1.2.2. Uses advised against No additional information available	
1.3. Details of the supplier of the safety data sheet Anorel NV Lintsesteenweg 632 2540 Hove T +3234880233 anorel@anorel.net	
1.4. Emergency telephone number	
BelgiumCentre Anti-Poisons/Antigifcentrum(+32) 70 245 245IrelandNational Poisons Information Centre(+353) 1 8379964United KingdomUK National Poisons Emergency(+44) 870 600 6266USAINFOTRAC(800) 535-5053	
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Not classified	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
Child-resistant fastening : No	
Tactile warning : No	
2.3. Other hazards	
2.3. Other hazards Adverse physicochemical, human health and environmental effects : May Cause skin irritation. May cause eye irritation.	
Adverse physicochemical, human health and : May Cause skin irritation. May cause eye irritation.	
Adverse physicochemical, human health and : May Cause skin irritation. May cause eye irritation. environmental effects	
Adverse physicochemical, human health and environmental effects : May Cause skin irritation. May cause eye irritation. SECTION 3: Composition/information on ingredients	

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
potassium nitrate	(CAS No) 7757-79-1 (EC no) 231-818-8 (REACH-no) 01-2119488224-35	20 - 50	Ox. Sol. 3, H272
ammonium dihydrogen phosphate	(CAS No) 7722-76-1 (EC no) 231-764-5 (REACH-no) 01-2119488166-29	20 - 50	Not classified

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urea	(CAS No) 57-13-6 (EC no) 200-315-5 (REACH-no) 01-2119463277-33	20 - 50	Not classified
Urea Phosphate	(CAS No) 4861-19-2 (EC no) 225-464-3 (REACH-no) 01-2119489460-34	1 - 10	Skin Corr. 1B, H314
tetrapotassium pyrophosphate, anhydrous	(CAS No) 7320-34-5 (EC no) 230-785-7 (REACH-no) 01-2119489369-18	1 - 10	Eye Irrit. 2, H319 Skin Irrit. 2, H315
boric acid substance listed as REACH Candidate	(CAS No) 10043-35-3 (EC no) 233-139-2 (EC index no) 005-007-00-2 (REACH-no) 01-2119486683-25	< 1	Repr. 1B, H360FD
Ethylenediaminetetraacetic acid, coppper-dissodium complex	(CAS No) 14025-15-1 (EC no) 237-864-501 (REACH-no) 01-2119963944-23	<1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
boric acid	(CAS No) 10043-35-3 (EC no) 233-139-2 (EC index no) 005-007-00-2 (REACH-no) 01-2119486683-25	(C >= 5.5) R	epr. 1B, H360FD

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
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 occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/injuries after skin contact	: May cause moderate irritation. Irritation.
Symptoms/injuries after eye contact	: May cause slight irritation. Eye irritation.
4.3. Indication of any immediate medica	I attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the su	bstance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
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 containme	ent and cleaning up
Methods for cleaning up	: Recover mechanically the product.
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.	

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SECT	TON 7: Handling and stor	age	
7.1.	Precautions for safe handling]	
Precau	tions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.	
Hygien	e measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2.	7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions : Store in a well-ventilated place. Keep cool.		: Store in a well-ventilated place. Keep cool.	
7.3.	Specific end use(s)		

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	5	
boric acid (10043-35-3)		
Belgium	Limit value (mg/m ³)	2 mg/m ³ (Borate, composés inorganiques de; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m³)	6 mg/m ³ (Borate, composés inorganiques de; Belgium; Short time value)

: Ensure good ventilation of the work station.
: Protective gloves
: Safety glasses
: Wear suitable protective clothing
: In case of insufficient ventilation, wear suitable respiratory equipment
: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Crystalline powder.	
Colour	: light brown.	
Odour	: odourless.	
Odour threshold	: No data available	
рН	: No data available	
pH solution	: 4.5	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: Not applicable	
Density	: 1000 kg/m ³	
Solubility	: Soluble in water. Soluble in acetic acid.	
Log Pow	: No data available	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: Not applicable	

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9.2. Other information Bulk density : 1000 kg/m³ 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).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
urea (57-13-6)			
LD50 oral rat	8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)		
LD50 dermal rat	> 3200 mg/kg (Rat; Literature study)		
LD50 dermal rabbit	> 21000 mg/kg (Rabbit; Literature study)		
potassium nitrate (7757-79-1)			
LD50 oral rat	3750 mg/kg (Rat)		
boric acid (10043-35-3)			
LD50 oral rat	2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >2600 mg/kg bodyweight; Rat; Experimental value)		
LD50 dermal rabbit	> 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)		
ammonium dihydrogen phosphate (7722-76-1)		
LD50 oral rat	5750 mg/kg (Rat)		
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)		
Ethylenediaminetetraacetic acid, coppper-dis	sodium complex (14025-15-1)		
LD50 oral rat	890 mg/kg		
Urea Phosphate (4861-19-2)			
LD50 oral rat	≈ 2600 mg/kg		
tetrapotassium pyrophosphate, anhydrous (7	320-34-5)		
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)		
LC50 inhalation rat (mg/l)	> 1.1 mg/l/4h		
Skin corrosion/irritation	: Not classified.		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Urea Phosphate (4861-19-2)			
NOAEL (chronic, oral, animal/male, 2 years)	> 1500 mg/kg bodyweight		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified		
Urea Phosphate (4861-19-2)			
NOAEL (oral, rat, 90 days)	≈ 250 mg/kg bodyweight/day		

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Urea Phosphate (4861-19-2)

Aspiration hazard

: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
urea (57-13-6)		
LC50 fish 1	> 6810 mg/l (LC50; 96 h; Leuciscus idus; Static system)	
EC50 Daphnia 1	> 10000 mg/l (EC50; 48 h; Daphnia magna)	
Threshold limit algae 1	> 10000 mg/l (EC0; 168 h; Scenedesmus quadricauda; Static system; Fresh water)	
potassium nitrate (7757-79-1)		
LC50 fish 2	1378 mg/l (LC50; 96 h; Poecilia reticulata)	
LC50 other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)	
ammonium dihydrogen phosphate (7722-76-1)		
LC50 fish 1	155 ppm (LC50; 96 h)	
Urea Phosphate (4861-19-2)		
LC50 fish 1	> 9100 mg/l	
EC50 Daphnia 1	> 100 mg/l Daphnia magna	
EC50 72h algae (1)	> 100 mg/l Desmodesmus subspicatus	
tetrapotassium pyrophosphate, anhydrous (7320-34-5)		
LC50 fish 1	> 750 mg/l (LC50; 48 h)	
EC50 Daphnia 1	> 100 mg/l Daphnia magna	

12.2. Persistence and degradability

Dereistance and degradability		
Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Highly mobile in soil.	
ThOD	0.27 g O₂/g substance	
potassium nitrate (7757-79-1)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
boric acid (10043-35-3)		
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
ammonium dihydrogen phosphate (7722-76-1)	
Persistence and degradability	Biodegradability in water: no data available.	
Urea Phosphate (4861-19-2)		
Persistence and degradability	% biodegradation.	
Biodegradation	≈ 100 %	
tetrapotassium pyrophosphate, anhydrous (7320-34-5)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
12.3. Bioaccumulative potential		
urea (57-13-6)		
BCF fish 1	1 (BCF; 72 h; Brachydanio rerio)	
BCF other aquatic organisms 1	11700 (BCF)	

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urea (57-13-6)			
Log Pow	< -1.73 (Experimental value; EU Method A.8: Partition Coefficient)		
Bioaccumulative potential	Bioaccumulation: not applicable.		
potassium nitrate (7757-79-1)			
Bioaccumulative potential	No bioaccumulation data available.		
boric acid (10043-35-3)			
BCF fish 2	< 0.1 (BCF; 60 days; Oncorhynchus tshawytscha; Flow-through system; Fresh water; Weight of evidence)		
Log Pow	-1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
ammonium dihydrogen phosphate (7722-76-	1)		
Bioaccumulative potential	Not bioaccumulative.		
Urea Phosphate (4861-19-2)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
tetrapotassium pyrophosphate, anhydrous (
Bioaccumulative potential	Bioaccumulation: not applicable.		
12.4. Mobility in soil			
urea (57-13-6)			
Log Koc	Koc,0.037-0.064; Experimental value		
boric acid (10043-35-3)			
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.		
12.5. Results of PBT and vPvB assessme	nt		
Component			
Urea Phosphate (4861-19-2)	PBT: not relevant – no registration required		
	vPvB: not relevant – no registration required		
tetrapotassium pyrophosphate, anhydrous (7320-34-5)	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		
12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal consideration	8		
	S		
13.1. Waste treatment methods	· Disease of contents/container is accordance with licensed collecteds particular induced		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IATA / AI)N		
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: Not applicable		
Proper Shipping Name (IMDG)	: Not applicable		
Proper Shipping Name (IATA)	: Not applicable		
Proper Shipping Name (ADN)	: Not applicable		
Proper Shipping Name (RID)	: Not applicable		
14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: Not applicable		
IMDG	Mart and Parala		
Transport hazard class(es) (IMDG)	: Not applicable		
ΙΑΤΑ			
Transport hazard class(es) (IATA)	: Not applicable		
Transport hazard class(es) (ADN)	: Not applicable		
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RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No

: No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

Other information

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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 \geq 0,1 % / SCL Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H-	and EUH-statements:
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Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H360FD	May damage fertility. May damage the unborn child

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SDS EU (REACH Annex II)

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