

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

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

#### 1.1. Product identifier

Product form : Mixtures  
Trade name : Van Iperen WS NPK 17 - 10 - 27 + TE  
Synonyms : NPK-fertilizer, oxidising, no additional hazard

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of product : Fertilizer

Title	Use descriptors
Professional use as fertilizer	SU1 PC12 PROC1, PROC2, PROC8a, PROC8b, PROC11, PROC15, PROC19 ERC8b, ERC8e

Remark relevant uses	Information from relevant exposure scenarios is by means of consolidation included in section 1-16 of this Safety Data Sheet
----------------------	------------------------------------------------------------------------------------------------------------------------------

Full text of use descriptors: see section 16

##### 1.2.2. Uses advised against

Restrictions on use : No supplementary information available

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

Van Iperen International BV  
Smidsweg 24  
3273 LK Westmaas - Netherlands  
T +31 (0)186 578 888 - F +31 (0)186 573452  
[info@iperen.com](mailto:info@iperen.com) - [www.vaniperen.com](http://www.vaniperen.com)

#### 1.4. Emergency telephone number

Emergency number : Contact supplier if guidance is required

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids, Category 3 H272

Full text of hazard classes and H-statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS03

CLP Signal word : Warning  
Hazardous ingredients : Potassium nitrate, Ammonium nitrate  
Hazard statements (CLP) : H272 - May intensify fire; oxidiser  
Precautionary statements (CLP) : P210 - Keep away from heat, open flames, sparks, hot surfaces. - No smoking  
P221 - Take any precaution to avoid mixing with combustibles  
P280 - Wear protective gloves, protective clothing, eye protection  
P370+P378 - In case of fire: Use water in large amounts for extinction

Special labelling of certain mixtures:

EUH210 - Safety data sheet available on request.

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

### 2.3. Other hazards

Other hazards not contributing to the classification : Spill area may be slippery.

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : Sum of potassium nitrate and ammonium nitrate > 65%

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	> 0 - < 80	Ox. Sol. 3, H272
Ammonium nitrate	(CAS No) 6484-52-2 (EC no) 229-347-8 (REACH-no) 01-2119490981-27	> 0 - < 70	Ox. Sol. 3, H272 Eye Irrit. 2, H319
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	< 0.2	Repr. 1B, H360FD

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Ammonium nitrate	(CAS No) 6484-52-2 (EC no) 229-347-8 (REACH-no) 01-2119490981-27	( 80 =<C < 100) Eye Irrit. 2, H319
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) Repr. 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 general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Inhalation unlikely. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: In case of irritation, remove clothing. Before washing use a dry brush to remove dust from skin. Rinse and then wash skin thoroughly with water and soap. Take victim to a doctor if irritation persists. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: If victim conscious and alert, give 2-3 glasses of water to drink. Do not give an unconscious person anything to drink. Victim is fully conscious: immediately induce vomiting. Keep watching the victim. Consult a doctor/medical service if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: The product can cause methemoglobinemia.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Red skin. On continuous exposure/contact: Tingling/irritation of the skin.
Symptoms/injuries after eye contact	: Redness of the eye tissue. On continuous exposure/contact: irritation of the eye tissue.
Symptoms/injuries after ingestion	: Swallowing large quantities can give complaints to stomach/bowel. Cyanosis may occur (lips and fingernails turn blue).

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Follow the advices in chapter 4.1. The product can cause methemoglobinemia. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use fire extinguishing methods suitable to surrounding conditions. Spray water for small fires. For large fires flood with abundant water.
- Unsuitable extinguishing media : Do not use chemical extinguishers of foams. Don't use steam or sand to extinguish fire.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Promotes combustion. Product is not self-ignitable, but may support combustion.
- Explosion hazard : Specific hazards: In case of fire, there is a potential option of explosion, especially if fertilizers are contaminated by inappropriate (incompatible) chemical substances (e.g. oils, see section 10).

#### 5.3. Advice for firefighters

- Precautionary measures fire : Exposure to fire/heat: keep upwind, consider evacuation and have neighbourhood close doors and windows.
- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Other information : If safe to do so prevent the contamination of the fertilizer by oil and other combustible materials. Do not allow run-off from fire-fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Always ensure first your own safety. Ensure adequate air ventilation. Do not get in eyes, on skin, or on clothing. Avoid raising dust.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear protective gloves/protective clothing/eye protection as advised in section 8. Reactivity hazard: compressed air/oxygen apparatus.
- Emergency procedures : Notify experts. Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. No action shall be taken involving any personal risk or without suitable training.
- Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

##### 6.1.2. For emergency responders

- Protective equipment : Wear suitable respiratory equipment in case of insufficient ventilation or in case of prolonged exposure. See also the information in "For non-emergency personnel".

#### 6.2. Environmental precautions

Stop leaks if possible. Prevent uncontrolled discharges into the environment (rivers, water courses, sewers etc.).

#### 6.3. Methods and material for containment and cleaning up

- For containment : Minimize generation of dust. Stop leaks if possible. Do not let the fertilizer to be mixed up with sawdust and oil lubricants. Dilute collected small fertilizer particles mixing them with inert materials (limestone, dolomite, mineral phosphates, gypsum, sand) or dissolve in water.
- Methods for cleaning up : Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
- Other information : Do not wash out with water in a sensitive environment. Dispose the product, depending on the degree and type of contamination, either as fertilizer or in an authorized waste disposal site. Spill must not return in its original container.

#### 6.4. Reference to other sections

See section 1 for emergency contact information.  
See section 8 for information on appropriate personal protective equipment.  
See section 13 for additional waste treatment information

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry. Keep away from heat sources, clothing, combustible materials. - No smoking.
- Precautions for safe handling : Carry operations in the open air/under local exhaust or at sufficient ventilation to keep airborne levels below recommend/statutory exposure levels. Avoid raising dust. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection as advised in section 8. Avoid contact with skin and eyes. Clean contaminated clothing. Use corrosionproof equipment. Keep container tightly closed. Meet the legal requirements.
- Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
- Storage conditions : Keep preferably in the original container.
- Incompatible products : Storage with combustible substances, agents, acids, alkali, sulphur, chlorates, chlorides, chromates, nitrites, permanganates, metal powders and substances containing such materials as copper, nickel, cobalt, zinc and alloys of any of the aforementioned materials should be avoided.
- Storage temperature :  $\leq 30$  °C
- Heat and ignition sources : Keep substance away from: heat sources.
- Prohibitions on mixed storage : Keep substance away from: (strong) acids, (strong) bases, combustible materials, organic materials, oxidizing agents.
- Storage area : Store in dry, cool, well-ventilated area. Avoid unnecessarily exposure to air to prevent absorption of moisture. Meet the legal requirements. Keep out of direct sunlight. No open flames, no sparks, and no smoking. The product in 500 kg big bags must be piled in no more than 4 layers. When bigger bags are used, number of layers must not exceed 3. Keep storage piles at least 1 meter from walls, eaves, beams and lighting.
- Special rules on packaging : Special or additional requirements: closing. correctly labelled. Meet the legal requirements. Secure fragile packagings in solid containers. Keep packaging closed when not in use.
- Packaging materials : Suitable material: polyethylene, polypropylene  
Material to avoid: aluminium, copper, zinc

#### 7.3. Specific end use(s)

Fertilizers.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>Ammonium nitrate (6484-52-2)</b>	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	21.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	37.6 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	12.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	11.1 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	12.8 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.45 mg/l
PNEC aqua (marine water)	0.045 mg/l
PNEC aqua (intermittent, freshwater)	4.5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	18 mg/l

<b>Potassium nitrate (7757-79-1)</b>	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	20.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	36.7 mg/m <sup>3</sup>
DNEL/DMEL (General population)	

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

<b>Potassium nitrate (7757-79-1)</b>	
Acute - systemic effects, oral	12.5 mg/kg bodyweight
Long-term - systemic effects, inhalation	10.9 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	12.5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.45 mg/l
PNEC aqua (marine water)	0.045 mg/l
PNEC aqua (intermittent, freshwater)	4.5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	18 mg/l
<b>Boric acid (10043-35-3)</b>	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	392 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8.3 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0.98 mg/kg bodyweight
Long-term - systemic effects, oral	0.98 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4.15 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	196 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	2.02 mg/l (expressed as element)
PNEC aqua (marine water)	2.02 mg/l (expressed as element)
PNEC aqua (intermittent, freshwater)	9.1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.8 mg/kg dwt
PNEC sediment (marine water)	1.8 mg/kg dwt
PNEC (Soil)	
PNEC soil	5.4 mg/kg dwt (expressed as element)
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

### 8.2. Exposure controls

Appropriate engineering controls

- : Ensure good ventilation of the work station.
- Ensure exposure is below occupational exposure limits (where available).

Personal protective equipment

- : Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P2.



### 8.2. Exposure controls

Hand protection

- : In case of repeated or prolonged contact wear gloves

Material selection gloves

- : Take advice to your gloves' supplier. Take note of the information given by the producer concerning permeability and break through times and of special workplace conditions (mechanical strain, duration of contact). Replace damaged gloves

Type	Material	Permeation	Thickness (mm)	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 min)	0,35	EN 374
Reusable gloves	Butyl rubber, Polyvinylchloride (PVC)	6 (> 480 min)	0,5	EN 374

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

Eye protection	: Safety glasses. In case of dust production: protective goggles
Skin and body protection:	: Wear suitable protective clothing
Respiratory protection	: Carry operations in the open air/under local exhaust or at sufficient ventilation to keep airborne levels below recommend/statutory exposure levels. Dust production: dust mask with filter type P2
Environmental exposure controls	: Do not allow to enter drains or water courses. Emissions from ventilation or work process equipment should be checked to ensure they comply with legislation. In some cases process modifications will be necessary to reduce emissions to acceptable levels.
Other information	: Do not eat, drink or smoke when using this product. Training staff on good practice. Avoid contact with contaminated tools and objects. Regular cleaning of equipment, work area and clothing. Minimisation of manual phases. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Make sure the installation and workplace are correctly labelled. Limit access to the installation and the surrounding area to only strictly necessary authorised personnel. Isolate, drain, wash and purge the systems or equipments before any maintenance or repair. Ensure the ventilation system is regularly maintained and tested.

### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Crystalline powder.
Colour	: White.
Odour	: Odourless.
Odour threshold	: No data available
pH	: Refer to product datasheet
Vapour pressure	: Negligible vapour pressure at ambient conditions
Relative density	: Refer to product datasheet
Solubility	: Soluble in water. Water: Refer to product datasheet
Log Pow	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Not relevant for a solid
Explosive properties	: Not explosive.
Oxidising properties	: May intensify fire; oxidiser.

#### 9.2. Other information

Other properties	: Hygroscopic.
------------------	----------------

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is not considered as reactive.

#### 10.2. Chemical stability

Stable under recommended storage and treatment circumstances.

#### 10.3. Possibility of hazardous reactions

The product reacts with combustible materials and increases combustion even in the absence of air. Reacts with many compounds e.g.: with organic material, with combustible materials, with (some) metals and their compounds and with (strong) reducers. Reacts with (some) acids: release of toxic and corrosive gases/vapours (nitrous vapours). Heating under strong confinement (eg. in tubes or drains) may lead to a violent reaction or explosion. Can melt and decompose in a fire.

#### 10.4. Conditions to avoid

Avoid high temperatures. Prevent moisture contact.

#### 10.5. Incompatible materials

Keep substance away from: strong acids, strong bases and oxidation agents. combustible materials. reducing agents. organic materials. metal powders. chromates. chlorates. copper. zinc. aluminium.

#### 10.6. Hazardous decomposition products

On heating/burning: release of toxic and corrosive gases/vapours (nitrous vapours). Decomposes on exposure to temperature rise: release of oxygen. . Reacts with (some) acids: release of toxic and corrosive gases/vapours : nitrous vapours.

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

<b>Ammonium nitrate (6484-52-2)</b>	
LD50 oral rat	2950 mg/kg (OECD 401)
LD50 dermal rat	> 5000 mg/kg (OECD 402)
LC50 inhalation rat (mg/l)	Inhalation unlikely

<b>Potassium nitrate (7757-79-1)</b>	
LD50 oral rat	3750 mg/kg OECD Guideline 405
LD50 dermal rat	> 5000 mg/kg bw/day OECD Guideline 402
LC50 inhalation rat (mg/l)	> 0.527 mg/l/4h OECD Guideline 403

<b>Boric acid (10043-35-3)</b>	
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)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: Refer to product datasheet

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: Refer to product datasheet

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Potential adverse human health effects and symptoms : The product can cause methemoglobinemia.

Other information : Information on Effects: refer to section 4.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Classification concerning the environment: not applicable.

Ecology - water : Mild water pollutant (surface water). Ground water pollutant.  
Maximum concentration in drinking water: 50 mg/l (nitrate) (Directive 98/83/EC).  
Not harmful to algae (EC50 >1000 mg/l).  
Slightly harmful to invertebrates (Daphnia) (EC50 (48h): 100 - 1000 mg/l).  
Slightly harmful to plankton (EC50: 100 - 1000 mg/l).  
Slightly harmful to fishes (LC50 100-1000 mg/l).

<b>Ammonium nitrate (6484-52-2)</b>	
LC50 fish 1	447 mg/l 48-h

<b>Potassium nitrate (7757-79-1)</b>	
LC50 fish 1	162 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
EC50 other aquatic organisms 1	200 - 1000 mg/l (Plankton)
LC50 fish 2	1378 mg/l (96 h; Poecilia reticulata)
LC50 other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)
TLM fish 1	3000 mg/l (96 h; Lepomis macrochirus)
TLM fish 2	162 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
Threshold limit other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)

#### 12.2. Persistence and degradability

<b>Van Iperen WS NPK 17 - 10 - 27 + TE</b>	
Persistence and degradability	Preparation based on substances which are readily biodegradable.
Biochemical oxygen demand (BOD)	Not applicable

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

Van Iperen WS NPK 17 - 10 - 27 + TE	
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Potassium nitrate (7757-79-1)	
Persistence and degradability	In accordance with column 2 of REACH Annex VII, the ready biodegradability test does not need to be conducted as the substance is inorganic. Will completely dissociate into ions.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of 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

## SECTION 12: Ecological information

### 12.3. Bioaccumulative potential

Van Iperen WS NPK 17 - 10 - 27 + TE	
Bioaccumulative potential	No bioaccumulation or biomagnifications are expected based on substance properties (Log Pow < 1).
Potassium nitrate (7757-79-1)	
Bioaccumulative potential	No bioaccumulation or biomagnifications are expected based on substance properties (Log Pow < 1).
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)
Log Kow	-1.09
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

Van Iperen WS NPK 17 - 10 - 27 + TE	
Ecology - soil	Low potential for adsorption (based on substance properties). Soluble in water.
Potassium nitrate (7757-79-1)	
Ecology - soil	Low potential for adsorption (based on substance properties). Soluble in water.
Boric acid (10043-35-3)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

### 12.5. Results of PBT and vPvB assessment

Van Iperen WS NPK 17 - 10 - 27 + TE	
This mixture does not meet the PBT and/or vPvB criteria of REACH regulation, annex XIII	

### 12.6. Other adverse effects

Other adverse effects : May cause eutrophication.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

European List of Waste (LoW) code : 06 10 02\* - wastes containing dangerous substances  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances  
*Depending on branch of industry and production process, also other EURAL codes may be applicable*

Regional legislation (waste) : Disposal must be done according to official regulations.



# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

- Waste treatment methods : This material and its container must be disposed of in a safe way. Dispose the product, depending on the degree and type of contamination, either as fertilizer or in an authorized waste disposal site.
- Waste disposal recommendations : Recycle/reuse. Do not discharge into surface water. Remove waste in accordance with local and/or national regulations. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.
- Additional information : Hazardous waste according to Directive 2008/98/EC.
- Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
1479	1479	1479	1479	1479
<b>14.2. UN proper shipping name</b>				
OXIDIZING SOLID, N.O.S.	OXIDIZING SOLID, N.O.S.	Oxidizing solid, n.o.s.	OXIDIZING SOLID, N.O.S.	OXIDIZING SOLID, N.O.S.
<b>Transport document description</b>				
UN 1479 OXIDIZING SOLID, N.O.S. (CONTAINS Potassium Nitrate, Ammonium nitrate), 5.1, III, (E) UN 1479 OXIDIZING SOLID, N.O.S., 5.1, III				
<b>14.3. Transport hazard class(es)</b>				
5.1	5.1	5.1	5.1	5.1
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

- Classification code (ADR) : O2
- Special provisions (ADR) : 274
- Limited quantities (ADR) : 5kg
- Excepted quantities (ADR) : E1
- Packing instructions (ADR) : P002, IBC08, LP02, R001
- Special packing provisions (ADR) : B3
- Mixed packing provisions (ADR) : MP2
- Portable tank and bulk container instructions (ADR) : T1
- Portable tank and bulk container special provisions (ADR) : TP33
- Tank code (ADR) : SGAN
- Tank special provisions (ADR) : TU3
- Vehicle for tank carriage : AT
- Transport category (ADR) : 3
- Special provisions for carriage - Loading, unloading and handling (ADR) : CV24
- Hazard identification number (Kemler No.) : 50

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

Orange plates	:	<table border="1"><tr><td>50</td></tr><tr><td>1479</td></tr></table>	50	1479
50				
1479				
Tunnel restriction code (ADR)	:	E		

### SECTION 14: Transport information (continue)

#### 14.6. Special precautions for user

##### - Transport by sea

Transport regulations (IMDG)	:	Subject
Special provisions (IMDG)	:	223, 274, 900
Packing instructions (IMDG)	:	P002, LP02
IBC packing instructions (IMDG)	:	IBC08
IBC special provisions (IMDG)	:	B3
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-Q
Stowage category (IMDG)	:	B

##### - Air transport

PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y546
PCA limited quantity max net quantity (IATA)	:	10kg
PCA packing instructions (IATA)	:	559
PCA max net quantity (IATA)	:	25kg
CAO packing instructions (IATA)	:	563
CAO max net quantity (IATA)	:	100kg
Special provisions (IATA)	:	A3
ERG code (IATA)	:	5L

##### - Inland waterway transport

Classification code (ADN)	:	O2
Special provisions (ADN)	:	274
Limited quantities (ADN)	:	5 kg
Excepted quantities (ADN)	:	E1
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	:	0
Carriage prohibited (ADN)	:	No
Not subject to ADN	:	No

##### - Rail transport

Transport regulations (RID)	:	Subject
Classification code (RID)	:	O2
Special provisions (RID)	:	274
Limited quantities (RID)	:	5kg
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P002, IBC08, LP02, R001
Special packing provisions (RID)	:	B3
Mixed packing provisions (RID)	:	MP2
Portable tank and bulk container instructions (RID)	:	T1
Portable tank and bulk container special provisions (RID)	:	TP33
Tank codes for RID tanks (RID)	:	SGAN
Special provisions for RID tanks (RID)	:	TU3
Transport category (RID)	:	3

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

Special provisions for carriage - Loading, unloading and handling (RID) : CW24  
Colis express (express parcels) (RID) : CE11  
Hazard identification number (RID) : 50  
Carriage prohibited (RID) : No

### 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 a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Boric acid (EC 233-139-2, CAS 10043-35-3). Contains no REACH Annex XIV substances

Other information, restriction and prohibition : Information from relevant exposure scenarios is by means of consolidation included in section regulations 1-16 of this Safety Data Sheet.

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this preparation were carried out

## SECTION 16: Other information

Version : 3.2 according to Regulation (EU) 2015/830  
Revision date : 14/12/2016  
Date of issue : 11/11/2013  
Supersedes : 17/11/2016  
Indication of changes : Refer table below.

3.2	Composition/information on ingredients	Modified	
-----	----------------------------------------	----------	--

Abbreviations and acronyms:

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
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
DNEL	Derived-No Effect Level
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Information from suppliers. BIG-database.  
ECHA Website: Information on Registered Substances.  
Handbook of Chemistry and Physics CRC Press Inc. GESTIS Substance Database.

Training advice : Before using/handling the product one must read carefully the MSDS.

Other information : Mixtures containing less than 80% ammonium nitrate are not classified Irritating to eyes (Eye Irrit.2, H319) according to studies conducted by Fertilizers Europe in 2010.

Full text of H- and EUH-statements:

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
H272	May intensify fire; oxidiser

# Safety Data Sheet

according to Regulation (EU) 2015/830



## WS NPK 17 - 10 - 27 + TE

H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H360FD	May damage fertility. May damage the unborn child
ERC8b	Wide dispersive indoor use of reactive substances in open systems
ERC8e	Wide dispersive outdoor use of reactive substances in open systems
PC12	Fertilizers
PROC1	Use in closed process, no likelihood of exposure
PROC11	Non industrial spraying
PROC15	Use as laboratory reagent
PROC19	Hand-mixing with intimate contact and only PPE available
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
SU1	Agriculture, forestry, fishery

### Company disclaimer

*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 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 proceed, unless specified in the text.*