UKNITRATES

Sodium Nitrate
NaNO3

Properties

Granular, Crystals

Chemical Analysis

	Specification	Test result
Sodium Nitrate (NaNO3)	99.3% min	99.3%
Moisture	1.5% max	1.1%
Sodium Nitrate (NaNO3)	0.02% max	0.017%
Water Insoluble	0.03% max	0.027%
Chloride (as NACL)	0.5% max	0.15%
Calcium (as Ca+2)	0.18% max	0.26%
Sodium Carbonate	0.10% max	0.07%
PH Value	6.5 - 8.0	6.9
Iron (FE)	0.005% max	0.003%

Packs, Storage, Transportation

Pack Sizes

Product packed to PE 25 kg bags
1 Pallet = 1200kg / 48 × 25kg bags

Storage

Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or Protect the container against physical damage. Store separately from combustible and reducing materials

Usable Life

36 months from date of production in original sealed packages

Safety Precautions

When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information

CAS No. 7631-99-4
UN Identification No. 1498
Hazard Class 5.1
PG (Packing Group, UN) III

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0)1553 817744

UKNITRATES

Potassium Nitrate
KNO3

Properties

White and hygroscopic Crystals or Prills
Bulk density: Crystals 1100 kg/m3 Prills 1200 kg/m3
Melting Point 334C (607,15K)
Solubility in water KNO3 31 kg/100 kg water at 20C (293,15 K)

Chemical Analysis

Purity	Crystals	Prills
Potassium Nitrate (KNO3)	97.6% min	97.6% min
Potassium (K)	38.5% min	38.5% min
Nitrate (NO3)	60.1% min	60.1% min
Sodium (as Na+)	0.35% min	0.35% min
Magnesium (as Mg+2)	0.15% max	0.15% max
Calcium (as Ca+2)	0.18% max	0.18% max
Total Chloride (como Cl-)	0.50% max	0.50% max
Sulphates (as SO =4)	0.06% max	0.06% max
Nitrites (as NO -2)	0.02% max	0.02% max
Carbonates (as CO =3)	0.00% max	0.00% max
Borates (as B4O =)	0.02% max	0.02% max
Boric Acid (as H3BO3)	0.10% max	0.10% max
Humidity (as H2O)	0.10% max	0.05% max
Insolubles	0.05% max	0.05% max

Typical Size Distribution

Crystals mm	U.S. mesh	% acumulado
1000	+16	2.5
0,500	+32	14.9
0,354	+42	33.4
0,250	+60	65.0
0,177	+80	86.9
0,125	+115	95.9
0,088	+170	99.5

Prills mm	U.S. mesh	% acumulado
3,360	+6	2.3
2,380	+8	25.2
1,680	+10	72.2
1,190	+14	98.7
1,000	+16	99.6

Packs, Storage, Transportation

Pack Sizes

25 kg net in PP outer bag and PE inner bag, top open mouth.
50 kg net in PP outer bag and PE inner bag top open mouth.
1000kg net in maxi bags. Outer bag: woven PP and inner bag: PE, by request only

Storage

Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or Protect the container against physical damage.
Store separately from combustible and reducing materials

Usable Life

36 months from date of production in original sealed packages

Safety Precautions

When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information

CAS No. 7757-79-1
UN Identification No. ONU 1486
Hazard Class 5.1
PG (Packing Group, UN) III

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0)1553 817744

UKNITRATES

Ammonium Nitrate
NH4NO3

Properties

Muriate of potash 60
White / off-white prilled Ammonium Nitrate fertiliser, which is dust free and of uniform chemical composition.

Producer

N-Tech

Chemical Analysis

	Specification	Typical
Sodium Nitrate (NaNO3)	34.5%	33.9%
Nitric (N)	17.3%	17.3%
Ammoniacal N	17.2% max	17.2%
pH	>5.8	6.5
Combustible carbon	<2000 ppm	<100 ppm
Chloride	<10 ppm	<5 ppm
Oil absorbtion	<4%	<2.5%
Heavy metals	<10 ppm	<2 ppm
Physical Size		
D50 (min)	2.1 mm	
D50 (target)	2.45mm - 2.55mm	
D50 (max)	2.7 mm	
Product >4.75mm	< 1.0%	
Product <1.4mm	< 3.0%	
Product <0.5 mm	< 0.2 %	

Packs, Storage, Transportation

Pack Sizes
Product packed to PE 25 kg bags
1 Pallet = 1200kg / 48 × 25kg bags

Storage
Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or Protect the container against physical damage. Store separately from combustible and reducing materials

Usable Life
36 months from date of production in original sealed packages

Safety Precautions
When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information
UN Identification No. ONU 2067
Hazard Class 5.1
PG (Packing Group, UN) III

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0)1553 817744

UKNITRATES

Calcium Chloride
CaCl2

Properties

White flakes, odourless
Bulk Density 800 - 900 kg/m3
EINECS 231-298-2

Producer

TETRA Chemicals Europe, Finland

Chemical Analysis

	Specification	Typical	EC2002/32
CaC12	>77%	78%	
C1	>49%	50%	
CaO	>38%	39%	
Ca	>27%	21%	
Moisture content	<22%	21%	
Na	<1%	0.7%	
Insoluble in water	<0.20%	0.05%	
F	<40 mg/kg	18 mg/kg	150
Pb	<5 mg/kg	0.5 mg/kg	10
Cd	<1 mg/kg	<1 mg/kg	2
As	<1 mg/kg	<0.01 mg/kg	2
Hg	<0.1 mg/kg	<0.01 mg/kg	0.1
pH (5% CaCl2 solution @20°C)	9-11	10.4	

Packs, Storage, Transportation

Pack Sizes
Product packed to PE 25 kg bags
1 Pallet = 42 × 25kg bags

Storage
Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or Protect the container against physical damage. Store separately from combustible and reducing materials

Usable Life
24 months from date of production in original sealed packages

Safety Precautions
When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information
CAS No. 10043-52-4
Hazard Class 4
PG (Packing Group, UN) II

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0)1553 817744

UKNITRATES

Calcium Nitrate
Ca(NO3)2

Properties

Small white granules, max. content of part insoluble in water is 0,1%
Major component is compound 5Ca(NO3)2.NH4NO3.10H2O

Producer

D U S L O, a.s

Chemical Analysis

	Value in % w/w	Test method
Total Nitrogen (N)	15.5	AM 03/10
Nitric Nitrogen (NO3)	14.4	AM 01/10
Ammoniacal nitrogen (NH4+)	1.1	AM 02/10
Calcium as CaO (in water soluble form)	26.5	AM 04/10
Particle		
< 10mm 0.0	AM 07/10	
1 - 4mm	90.0 min	AM 07/10
> 1mm	10.0 max	AM 07/10

Tolerances: for N total is 0,4 % w/w, for CaO is 0,9 % w/w.

Packs, Storage, Transportation

Pack Sizes

Product packed to PE 25 kg bags
600kg, 1000kg, 1100kg, 1200kg big bags can be transported with or without a palette
1 Pallet = 1000kg - 1200kg / 48 × 25kg bags

Storage

Manufacturers, importers, distributors who store fertilizers are required to:
a) store the fertilisers separately and mark them with permanent and legible manner,
b) ensure that the mixing of fertiliser with other substances must not occur,
c) keep regular track of gain, expenditure and amounts of fertiliser.
The product must be stored in original undamaged and closed bag in dry, hygienically clean, well ventilated and sealed stores, away from food, drink, feed, pesticides and their packages

Usable Life

36 months from date of production in original sealed packages

Safety Precautions

When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information

CAS No. 35054-52-5
UN Identification No. ONU 1454
Hazard Class 5.1
PG (Packing Group, UN) III

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0)1553 817744

UKNITRATES

Magnesium Sulphate
MgSO47H2O

Properties

Crystals, odourless, white
Molecular weght 246.48
EINECS 231-298-2

Producer

Hortipray, Prayon, Belgium

Chemical Analysis

	Specifications
Purity (as MgSO47H2O)	99.0 – 99.5%
Magnesium Sulphate(Mg SO4)	> 48.5%
Magnesium Oxide (MgO)	16.0 – 17.0%
Magnesium (Mg)	> 9.6%
SO3	32.0 – 32.5%
pH (5 % aqueous solution)	7.0 +/- 0.5
Chlorides (as Cl)	< 300.0 ppm
Calcium (as Ca)	< 300.0 ppm
Heavy metals (as Pb)	< 2.0 ppm
Arsenic (as As2 O3)	< 2.0 ppm
Iron (as Fe)	< 20.0 ppm
Insoluble	< 0,2%

Packs, Storage, Transportation

Pack Sizes

Product packed to PE 25 kg bags with a stretched plactic foil
1 Pallet = 1200kg / 48 × 25kg bags

Storage

Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or Protect the container against physical damage.
Store separately from combustible and reducing materials

Usable Life

24 months from date of production in original sealed packages

Safety Precautions

When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information

CAS No. 100034-99-8
Combined Nomenclature Code 2833 21 00
Hazard Class 5.1
PG (Packing Group, UN) III

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0)1553 817744

UKNITRATES

MKP Monopotassium Phosphate

Properties

Crystals, odourless, white
Molecular weght 136
EINECS 231-913-4
52.0 % Phosphorus pentoxide (P2O5), water-soluble
52.0 % Phosphorus pentoxide (P2O5), soluble in neutral ammonium citrate and in water
34.0 % Potassium oxide (K2O), water soluble

Producer

Hortipray, Prayon, Belgium

Chemical Analysis

	Typical	Specifications	Methods
Total P2O5 (anhydrous)	52.1%	51.6% min	PLC 20
P	22.7%	22.5% min	Calculation
K2O	34.6%	34.2% min	Calculation
K	28.7%	28.4% min	Calculation
P2O5 + K2O	86.7%	84.5% min	Calculation
Assay	99.9%	99.0% min	Calculation
pH 1 % Solution	4.5%	4.2 - 4.8%	PLC 07
Insoluble matters	0.02%	0.20% max	PLC 03
Loss on desiccation (@ 105 °C)	< 0.05%	0.50% max	PLC 13
Sulfate (as SO3)	0.017%	0.100% max	PICP 05
Cadmium (Cd)	<0.1ppm	1.0 max	PICP 05

Physical Properties

Solubility in water at 20 °C	225 g/l water
Bulk density	1540 kg/m3
Electrical Conductivity at 1 g/l water and 20° C	0.77 mS/cm

Packs, Storage, Transportation

Pack Sizes
Product packed to PE 25 kg bags
1000kg net big bags.

Storage
Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or Protect the container against physical damage.
Store separately from combustible and reducing materials

Usable Life
24 months from date of production in original sealed packages

Safety Precautions
When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information
CAS No. 7778-77-0
Hazard Class 5.1
PG (Packing Group, UN) III

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0) 1553 817744

UKNITRATES

Potassium Chloride
KCl

Properties

Muriate of potash 60
60% K2O, water-soluble potassium oxide (= 49.8% K)

Producer

SoluMOP, K+S Minerals and Agriculture GmbH

Chemical Analysis

	Typical
Potassium chloride (KCl)	95.8%
Others (NaCl, MgCl2, K2SO4, MgSO4, CaSO4, etc.)	4%
Moisture	0.2%
H2O-Insolubles	<0.1%
Granulometry:	
> 0.8mm	1%
0.16 - 0.8mm	95%
< 0.16mm	4%
dso	0.49mm
Physical Properties	
Solubility in water	w (KCl) = 23.8% at 10 °C (50 °F) w (KCl) = 25.5% at 20 °C (68 °F) w (KCl) = 28.7% at 40 °C (104 °F)

Packs, Storage, Transportation

Pack Sizes

Product packed to PE 25 kg bags
600kg, 1000kg, 1100kg, 1200kg big bags can be transported with or without a palette
1 Pallet = 1000kg - 1200kg / 48 × 25kg bags

Storage

Manufacturers, importers, distributors who store fertilizers are required to:
a) store the fertilisers separately and mark them with permanent and legible manner,
b) ensure that the mixing of fertiliser with other substances must not occur,
c) keep regular track of gain, expenditure and amounts of fertiliser.
The product must be stored in original undamaged and closed bag in dry, hygienically clean, well ventilated and sealed stores, away from food, drink, feed, pesticides and their packages

Usable Life

36 months from date of production in original sealed packages

Safety Precautions

When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information

CAS No. 7447-40-7

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0)1553 817744