

## PRODUCT DATA SHEET

<b>SODIUM NITRATE INDUSTRIAL GRADE NPK 16 0 0</b>		<b>LATEST REVISION DATE 24.September 2020</b>		<b>VERSION 1</b>	
<b>1. PRODUCT IDENTIFICATION</b>					
Product name		Sodium Nitrate 16 0 0			
Chemical Formula		NaNO <sub>3</sub>			
Molecular Weight		84.995			
<b>2. PHYSICAL PROPERTIES</b>					
Physical state, form and colour		White hygroscopic crystals / prills			
Bulk density kg /m <sup>3</sup>		Crystals 1084 / Prills 1241			
Melting point		306 °C (579.15 K)			
Solubility in water		91.2 kg/100 kg in water at 25 °C (298.15 K)			
<b>3. CHEMICAL PROPERTIES</b>					
<b>Guaranteed</b>		<b>Crystals</b>		<b>Prills</b>	
Sodium Nitrate (as NaNO <sub>3</sub> )*		99.0 % min		99.0 % min	
<b>Typical</b>					
Nitrate (as NO <sub>3</sub> )		72.2 % Min		72.2 % Min	
Sodium (as Na <sup>+</sup> )		26.7 % Min		26.7 % Min	
Magnesium (as Mg <sup>2+</sup> )		0.15 % Max		0.15 % Max	
Calcium (as Ca <sup>2+</sup> )		0.18 % Max		0.18 % Max	
Total Chloride (como Cl <sup>-</sup> )		0.15 % Max		0.15 % Max	
Sulphates (as SO <sub>4</sub> )		0.15 % Max		0.15 % Max	
Carbonates (as CO <sub>3</sub> )		0.02 % Max		0.02 % Max	
Humidity (as H <sub>2</sub> O)		0.10 % Max		0.10 % Max	
Water insoluble		0.05 % Max		0.05 % Max	
* Purity corresponds to N content expressed as NaNO <sub>3</sub>					
<b>4. TYPICAL SIZE DISTRIBUTION</b>					
<b>Crystals</b>			<b>Prills</b>		
mm	U.S. mesh	% on sieve	mm	U.S. mesh	% on sieve
1.000	+16	3.0	3.36	+6	2.0
0.500	+32	15.0	2.38	+8	25.0
0.354	+42	33.0	1.68	+10	72.0
0.250	+60	65.0	1.19	+14	99.0
0.177	+80	87.0	1.00	+16	100.0
0.125	+115	96.0			
0.088	+170	100.0			

## 5. PACKAGING

25kg net in PE bag. Top open mouth. Thermo fused closure at the top

25 kg net in PP outer bag and PE inner bag. Top open mouth

50kg net in PP outer bag and PE inner bag. Top open mouth. Only special customer request

1000kg net in maxi bags. Outer bag: woven PP and inner bag: PE. Only special customer request

## 6. HANDLING AND STORAGE

Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or ignition.

Protect the container against physical damage. Store separately from combustible and reducing materials

## 7. TRANSPORT INFORMATION

Description	Potassium Nitrate
CAS N°	7631-99-4
UN identification number	UN 1498
Hazard class or Division	5.1
PG (Packing Group, UN)	III

## 8. ANTI CAKING AGENT

Galoryl - Rate is 2.5kg per Metric Tonne

ACA is added as standard and can be supplied without on request.