### SECTION 1: Identification

#### 1.1. Identification

<table>
<thead>
<tr>
<th>Product form</th>
<th>:Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>:Best NK Basic 22-0-6</td>
</tr>
<tr>
<td>Product code</td>
<td>:M840138</td>
</tr>
</tbody>
</table>

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

No additional information available

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

JR Simplot Company
P.O. Box 70013
Boise, ID 83707
T 1-208-336-2110

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

### SECTION 2: Hazard(s) identification

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

GHS-US classification
- Serious eye damage/eye irritation, Category 2B : H320

Full text of H statements : see section 16

#### 2.2. Label elements

GHS-US labelling
- Signal word (GHS-US) : Warning
- Hazard statements (GHS-US) : H320 - Causes eye irritation
- Precautionary statements (GHS-US) : P264 - Wash hands, forearms and face thoroughly after handling P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical attention

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture
### Best NK Basic 22-0-6

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Sulfate Nitrate</td>
<td>(CAS No) 51177-03-8</td>
<td></td>
<td>Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>urea (57-13-6)</td>
<td>(CAS No) 57-13-6</td>
<td></td>
<td>Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>potassium chloride</td>
<td>(CAS No) 7447-40-7</td>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td>dolomite</td>
<td>(CAS No) 16389-88-1</td>
<td></td>
<td>Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>Proprietary</td>
<td></td>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td>Polymer Coating</td>
<td></td>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td>sulfur</td>
<td>(CAS No) 7704-34-9</td>
<td></td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>calcium sulfate</td>
<td>(CAS No) 7778-18-9</td>
<td></td>
<td>Eye Irrit. 2B, H320 STOT SE 3, H335</td>
</tr>
<tr>
<td>wax (paraffins- petroleum)</td>
<td>(CAS No) 64771-72-8</td>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td>quartz</td>
<td>(CAS No) 14808-60-7</td>
<td></td>
<td>Eye Irrit. 2B, H320 Carc. 1A, H350 STOT SE 3, H335 STOT RE 2, H373</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**First-aid measures general**: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid measures after inhalation**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**First-aid measures after skin contact**: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**First-aid measures after eye contact**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**First-aid measures after ingestion**: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after eye contact: Causes eye irritation.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media


**Unsuitable extinguishing media**: Do not use a heavy water stream.

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

No additional information available

### 5.3. Advice for firefighters

**Firefighting instructions**: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures**: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

**Protective equipment**: Equip cleanup crew with proper protection.

**Emergency procedures**: Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for containment and cleaning up

Methods for cleaning up: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from Keep container tightly closed.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>urea (57-13-6)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>potassium chloride (7447-40-7)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>dolomite (16389-88-1)</td>
<td>ACGIH</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>sulfur (7704-34-9)</td>
<td>ACGIH</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>wax (paraffins- petroleum) (64771-72-8)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Polymer Coating</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Ammonium Sulfate Nitrate (51177-03-8)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>calcium sulfate (7778-18-9)</td>
<td>ACGIH</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>quartz (14808-60-7)</td>
<td>ACGIH</td>
<td>0.025 R</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or safety glasses.
Respiratory protection: Wear appropriate mask.
Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Granules.
Colour: Multi-colored
Odour: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.
Mixture contains one or more component(s) which have the following odour(s):
Odourless In moist air: Ammonia odour Mild odour Petroleum-like odour Pure substance is odourless Commercial/unpurified substance: Unpleasant odour

- Odour threshold: No data available
- pH: No data available
- Melting point: No data available
- Freezing point: No data available
- Boiling point: No data available
- Flash point: No data available
- Relative evaporation rate (butylacetate=1): No data available
- Flammability (solid, gas): No data available
- Explosive limits: No data available
- Explosive properties: No data available
- Oxidising properties: No data available
- Vapour pressure: No data available
- Relative density: No data available
- Relative vapour density at 20 °C: No data available
- Solubility: Slowly soluble, coating insoluble.
  Water: Solubility in water of component(s) of the mixture:
  - potassium chloride: 34 g/100ml
  - dolomite: 0.0078 g/100ml
  - urea (57-13-6): 100 g/100ml
  - wax (paraffins- petroleum): insoluble
  - sulfur: insoluble
  - calcium sulfate: 0.25 g/100ml
- Log Pow: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity: No data available
- Viscosity, kinematic: No data available
- Viscosity, dynamic: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Not established.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products
## SECTION 11: Toxicological information
### 11.1. Information on toxicological effects

#### Acute toxicity
- **urea (57-13-6) (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)
  - ATE US (oral): 8471.000 mg/kg bodyweight

- **potassium chloride (7447-40-7)**
  - LD50 oral rat: 2600 mg/kg (Rat)
  - ATE US (oral): 2600.000 mg/kg bodyweight

- **sulfur (7704-34-9)**
  - LD50 oral rat: > 5000 mg/kg (Rat)
  - LD50 dermal rabbit: > 2000 mg/kg (Rabbit)
  - LC50 inhalation rat (mg/l): > 9.23 mg/l/4h (Rat)

- **wax (paraffins- petroleum) (64771-72-8)**
  - LD50 oral rat: > 5000 mg/kg (Rat)
  - LD50 dermal rabbit: > 2000 mg/kg (Rabbit)

- **calcium sulfate (7778-18-9)**
  - LD50 oral rat: > 1584 mg/kg bodyweight (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)

#### Skin corrosion/irritation
- Not classified

#### Serious eye damage/irritation
- Causes eye irritation.

#### Respiratory or skin sensitisation
- Not classified

#### Germ cell mutagenicity
- Not classified

#### Carcinogenicity
- Not classified

#### Reproductive toxicity
- Not classified

#### Specific target organ toxicity (single exposure)
- Not classified

#### Specific target organ toxicity (repeated exposure)
- Not classified

#### Aspiration hazard
- Not classified

#### Potential adverse human health effects and symptoms
- Based on available data, the classification criteria are not met.
  - Symptoms/injuries after inhalation: May cause respiratory irritation.
  - Symptoms/injuries after eye contact: Causes eye irritation.

## SECTION 12: Ecological information
### 12.1. Toxicity

#### urea (57-13-6) (57-13-6)
- LC50 fish 1: > 6810 mg/l (96 h; Leuciscus idus; Nominal concentration)
- EC50 Daphnia 1: > 10000 mg/l (48 h; Daphnia magna; Nominal concentration)
- LC50 fish 2: 17500 mg/l (96 h; Poecilia reticulata)
## 12.2. Persistence and degradability

### Best NK Basic 22-0-6

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>calcium sulfate (7778-18-9)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium chloride (7447-40-7)</td>
<td>Biodegradability: not applicable. Not established.</td>
</tr>
</tbody>
</table>

| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD                         | Not applicable |
| BOD (% of ThOD)              | Not applicable |

<table>
<thead>
<tr>
<th>dolomite (16389-88-1)</th>
<th>Biodegradability: not applicable. Not established.</th>
</tr>
</thead>
</table>

| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD                         | Not applicable |
| BOD (% of ThOD)              | Not applicable |

|-------------------|-------------------------------------------------------------|

| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD                         | Not applicable |
| BOD (% of ThOD)              | Not applicable |
### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Best NK Basic 22-0-6</strong></td>
<td>Not established.</td>
</tr>
<tr>
<td><strong>urea (57-13-6) (57-13-6)</strong></td>
<td>Bioaccumulative potential</td>
</tr>
<tr>
<td><strong>BCF fish 1</strong></td>
<td>1 (72 h; Brachydanio rerio; Fresh water)</td>
</tr>
<tr>
<td><strong>BCF other aquatic organisms 1</strong></td>
<td>11700 (Chlorella sp.)</td>
</tr>
<tr>
<td><strong>Log Pow</strong></td>
<td>&lt; -1.73 (Experimental value; EU Method A.8: Partition Coefficient)</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>Bioaccumulation: not applicable. Not established.</td>
</tr>
<tr>
<td><strong>potassium chloride (7447-40-7)</strong></td>
<td>Log Pow -0.46 (Estimated value)</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>Bioaccumulation: not applicable. Not established.</td>
</tr>
<tr>
<td><strong>dolomite (16389-88-1)</strong></td>
<td>Bioaccumulative potential</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>No bioaccumulation data available. Not established.</td>
</tr>
<tr>
<td><strong>sulfur (7704-34-9)</strong></td>
<td>Log Pow 0.23 (Estimated value)</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4). Not established.</td>
</tr>
<tr>
<td><strong>wax (paraffins- petroleum) (64771-72-8)</strong></td>
<td>Bioaccumulative potential</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>No bioaccumulation data available.</td>
</tr>
<tr>
<td><strong>Ammonium Sulfate Nitrate (51177-03-8)</strong></td>
<td>Bioaccumulative potential</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>Not established.</td>
</tr>
<tr>
<td><strong>calcium sulfate (7778-18-9)</strong></td>
<td>Bioaccumulative potential</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>No bioaccumulation data available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Proprietary</strong></td>
<td>Not established.</td>
</tr>
<tr>
<td><strong>quartz (14808-60-7)</strong></td>
<td>Log Pow Not applicable</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>No bioaccumulation data available.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>sulfur (7704-34-9)</strong></td>
<td>Not toxic to bees.</td>
</tr>
</tbody>
</table>
12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Not regulated for transport

TDG
No additional information available

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>wax (paraffins - petroleum)</td>
<td>64771-72-8</td>
<td></td>
</tr>
<tr>
<td>Polymer Coating</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Ammonium Sulfate Nitrate</td>
<td>51177-03-8</td>
<td></td>
</tr>
<tr>
<td>Proprietary</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

National regulations

quartz (14808-60-7)
Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm
Best NK Basic 22-0-6
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**SECTION 16: Other information**

Other information : None.

Full text of H-statements:

<table>
<thead>
<tr>
<th>H-number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREFIN PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.