

## EC Safety data sheet

|              |                                    |             |            |
|--------------|------------------------------------|-------------|------------|
| Name:        | POTASSIUM NITRATE KNO <sub>3</sub> | PRODUCT No. |            |
| Trade Names: | CHILI ULTRA K                      | STATUS      | 23.03.2001 |
|              |                                    | VERSION:    | 1/GB       |
|              |                                    | N° PAGES:   | 6          |

### 1. Identification of the substance/preparation and company

#### 1.1. Product details

**Trade name**

POTASSIUM NITRATE KNO<sub>3</sub>  
CHILI ULTRA K

#### 1.2. Identification of the manufacturer / supplier

**Address**

SQM EUROPE NV  
Precambuilding, Sint Pietersvliet 7/8  
B-2000 Antwerpen, Belgium  
Telephone no. +32 (0)3 203 97 00  
Fax no. +32 (0)3 203 97 77

**Emergency telephone**

+32 (0)3 203 97 00

### 2. Composition / information on ingredients

#### 2.1. Chemical characterization

Potassium Nitrate

#### 2.2. Substance / product identification

|                  |                  |
|------------------|------------------|
| CAS no.          | 7757-79-1        |
| EINECS no.       | 231-818-8        |
| Formula          | KNO <sub>3</sub> |
| Molecular weight | 101,1            |

### 3. Hazards possibilities

#### 3.1. Hazard designation

##### Hazard symbols

O Oxidizing

##### R phrases

8 Contact with combustible material may cause fire

22 Harmfull if swallowed

36/37/38 Irritating to eyes/ respiratory system / skin

### 4. First aid measures

#### 4.1. General information

By continuous complaints consult a physician.

Remove immediately contaminated clothing and shoes and launder thoroughly before reusing.

#### 4.2. After inhalation

Remove affected person from danger area.

Ensure supply of fresh air.

#### 4.3. After skin contact

In case of contact with skin wash off immediately with plenty of water.

#### 4.4. After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.)

Eye treatment by an Occulist.

#### 4.5. After ingestion

Rinse out mouth and give plenty of water to drink.

Summon a doctor immediately.

Never give anything by mouth to an unconscious person.

If individual is drowsy or unconscious place in recovery position (on left side, with head down).

### 5. Fire-fighting measures

#### 5.1. Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

#### 5.2. Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

In the event of fire the following can be released:

Nitrous gases (NOx)

Potassium nitrite, potassium peroxide

#### 5.3. Special protective equipment for firefighting

Use self-contained breathing apparatus.

Do not inhale explosion and/or combustion gases.

Wear protective clothing.

#### 5.4 Other information (chapter 5.)

The product is not combustible, however it promotes fire.

Cool endangered containers with water spray jet.

## 6. Accidental release measures

### 6.1. Personal precautions

Refer to protective measures listed in sections 7 and 8.  
Avoid contact with skin, eyes and clothing.  
Ensure adequate ventilation.  
Avoid dust formation.  
Keep away sources of ignition.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### 6.3. Methods for cleaning up/taking up

Pick up mechanically.  
Avoid raising dust.  
Send in suitable containers for recovery or disposal.

## 7. Handling and storage

### 7.1. Handling

#### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary).

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

### 7.2. Storage

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Always keep in containers of same material as the original one.

#### Hints on storage assembly

Keep away from flammable substances.

Do not store with combustible materials.

Do not store together with:

Reducing agents

#### Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

## 8. Exposure controls / personal protection

### 8.1. Ingredients with occupational exposure limits to be monitored

N O N E

### 8.2. Personal protective equipment

#### Respiratory protection

If ventilation insufficient, use a respiratory protection apparatus.

Dust mask

#### Hand protection

Protective gloves

#### Eye protection

Tightly fitting safety glasses

#### Skin protection

Clothing as usual in the chemical industry.

Protective shoes

## General protective and hygiene measures

Do not eat, drink or smoke during work time.  
Keep away from foodstuffs and beverages.  
Avoid contact with eyes and skin.  
Remove soiled or soaked clothing immediately.  
Do not inhale dust.  
Wash hands before breaks and after work.  
Hold eye bath available.  
Hold emergency shower available.

## 9. Physical and chemical properties

### 9.1. Appearance

|        |           |
|--------|-----------|
| Form   | Prills    |
| Colour | white     |
| Odour  | odourless |

### 9.2. Safety data

#### Changes in physical state

|       |               |        |
|-------|---------------|--------|
| Type  | Boiling point |        |
| Value |               | 400 °C |
| Type  | Melting point |        |
| Value |               | 337 °C |

#### Flash point

not applicable

#### Density

|       |     |                   |
|-------|-----|-------------------|
| Value | 1,3 | g/cm <sup>3</sup> |
|-------|-----|-------------------|

#### Solubility in water

|         |         |
|---------|---------|
| Remarks | soluble |
|---------|---------|

#### pH value

|               |                      |
|---------------|----------------------|
| Value         | 6 - 9                |
| Concentration | 1 % H <sub>2</sub> O |

## 10. Stability and reactivity

### 10.1. Materials to avoid

Reducing agents  
Reactions with combustible substances.

### 10.2. Hazardous decomposition products

Nitrous oxides (NO<sub>x</sub>)  
Potassium nitrite, potassium peroxide

## 11. Toxicological information

### 11.1. Acute toxicity

#### Acute oral toxicity

|         |            |
|---------|------------|
| LD50    | 3750 mg/kg |
| Species | rat        |
| Source  | RTECS      |

### 11.2. Experience in practice

Inhalation may lead to irritation of the respiratory tract.  
The product can cause skin and eye irritation.

## 12. Ecological information

### 12.1. General information / ecology

Do not discharge into the drains or waters and do not store on public depositories.

## 13. Disposal considerations

### 13.1. Product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

### 13.2. Uncleaned packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## 14. Transport information

### 14.1. Land transport ADR/RID

|                |                   |
|----------------|-------------------|
| Class          | 5.1, 22 c)        |
| Hazard no.     | 50                |
| UN number      | 1486              |
| Technical name | Potassium Nitrate |

### 14.2. Marine transport IMDG/GGVSee

|                       |                   |
|-----------------------|-------------------|
| Class                 | 5.1               |
| Packaging group       | III               |
| UN number             | 1486              |
| Propper shipping name | Potassium Nitrate |
| EmS                   | 5.1-06            |
| MFAG                  | 235               |

### 14.3. Air transport ICAO/IATA

|                       |                   |
|-----------------------|-------------------|
| Class                 | 5.1               |
| Packaging group       | III               |
| UN number             | 1486              |
| Propper shipping name | Potassium Nitrate |

## 15. Regulatory information

### 15.1. Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 67/548/EC.

**EC no.**

231-818-8

**Hazard symbols**

O Oxidizing

**R phrases**

9 Contact with combustible material may cause fire

23 Harmful if swallowed

36/37/38 Irritating to eyes/ respiratory system / skin

**S phrases**

16 Keep away from sources of ignition --- No smoking.

17 Keep away from combustible material

41 In case of fire and/or explosion do not breathe fumes.

## 16. Other information

### Department issuing safety data sheet

SQM EUROPE N.V. - Specialty Plant Nutrition department

Sint - Pietersvliet 7, bus 8

2000 Antwerpen - Belgium

Tel: (32 - 3) 203 9720

Fax: (32 - 3) 231 2782

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Date of printing :

05.04.2001