

**SECTION 1: Identification****1.1. Identification**

Product form	: Substance
Name	: Nepheline syenite
Trade name	: NEPHELINE SYENITE
CAS-No.	: 37244-96-5
Product code	: Nepheline 350/N500 DS, Nepheline 364 DS, Nepheline AG20N PO, Nepheline D45 PO, Nepheline D75 PO, Nepheline N20 PO, Nepheline N45 PO, Nepheline N75 PO, Nepheline S4 PO, Nepheline S6 PO, Nepheline S7 PO, Nepheline S10 PO, Nepheline VR34 PO, Nepheline VR7 PO
Synonyms	: Nepheline syenite, anhydrous sodium potassium aluminosilicate, sodium potassium aluminosilicate, inorganic feldspatic mineral

**1.2. Recommended use and restrictions on use**

Use of the substance/mixture	: Coatings, Paints, Plastics, Ceramics, Glass
Restrictions on use	: This product must not be used in applications other than those identified above, without first seeking advice of the supplier

**1.3. Supplier****Legal entity**

SCR-Sibelco NV  
1A Plantin en Moretuslei  
Antwerpen, 2018 - Belgium  
T +32 3 223 6611

**1.4. Emergency telephone number**

Emergency number	: Sibelco: +32 3 223 6611 (during office hours, CET)
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**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS US classification**

Not classified

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

Depending on the type of handling and use, airborne dust may be generated. Occupational exposure to dust should be monitored and controlled. This product should be handled with care to avoid dust generation.

**2.2. GHS Label elements, including precautionary statements****GHS US labeling**

No labeling applicable

**2.3. Other hazards which do not result in classification**

Other hazards which do not result in classification	: No other hazard identified.
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**2.4. Unknown acute toxicity (GHS US)**

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Comments : UVCB

Name	Product identifier	Conc. (% w/w)	GHS US classification
Nepheline syenite	(CAS-No.) 37244-96-5	100	Not classified

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

#### 3.2. Mixtures

Not applicable

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: No hazards which require special first aid measures.
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air.
First-aid measures after skin contact	: No special first aid measures necessary. Wash skin with soap and water. Use suitable lotion to moisturise skin.
First-aid measures after eye contact	: Rinse with copious quantities of water and seek medical attention if irritation persists.
First-aid measures after ingestion	: No first-aid measure required. Rinse mouth out with water. If you feel unwell, seek medical advice.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : No acute and delayed symptoms and effects are observed.

#### 4.3. Immediate medical attention and special treatment, if necessary

No special first aid measures necessary.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: No specific extinguishing media is needed.
Unsuitable extinguishing media	: No restriction on the extinguishing media to be used.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Not combustible.
Hazardous decomposition products in case of fire	: No hazardous thermal decomposition.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : No specific fire-fighting protection is required.

### SECTION 6: Accidental release measures

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

General measures : Avoid airborne dust generation, wear respiratory personal protective equipment in compliance with national legislation. CAUTION!. Material becomes extremely slippery when wet.

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### 6.1.1. For non-emergency personnel

No additional information available

### 6.1.2. For emergency responders

No additional information available

## 6.2. Environmental precautions

No special requirements. Collect spillage. Accidental release measures (Road transport): Secure road and warn other road users. Use a suitable vacuum cleaner.

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

For containment : Avoid dry sweeping and use water spraying or vacuum cleaning systems (with high-efficiency particulate air filter) to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.

## 6.4. Reference to other sections

See sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. Other suitable controls may include enclosure, isolation, water suppression, respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier or check the Good Practice Guide referred to in section 16. Prevent slurry spillage from process equipment.

Hygiene measures : Do not eat, drink and smoke in work areas; wash hands after use; remove contaminated clothing and protective equipment before entering eating areas. Shower and change clothes at end of work shift.

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

Storage conditions : Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting. Store in a dry covered area.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Additional information : Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust)  
For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority.

### Monitoring methods

Monitoring methods	Refer to European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) or equivalent national standard(s). Refer to European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) or equivalent national standard(s). Refer to European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) or equivalent national standard(s).
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### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.
Environmental exposure controls	: Avoid wind dispersal.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Safety glasses. Dust formation: dust mask.

#### Personal protective equipment symbol(s):



#### Hand protection:

Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

#### Eye protection:

Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.

#### Skin and body protection:

No specific requirement. Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

#### Respiratory protection:

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation. The use of half or full face masks with filters against particles of category 2 or 3 (FP2 - FP3) is recommended.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Powder, Granules, (sub-angular)
Color	: White Off-white
Odor	: Odorless
Odor threshold	: No data available
pH	: 10.3 (40% aqueous dispersion @68 °F)
Melting point	: 2282 – 2372 °F
Freezing point	: No data available
Boiling point	: Not applicable (solid with a melting point >842 °F)
Flash point	: Not applicable (solid with a melting point >842 °F)
Relative evaporation rate (butyl acetate=1)	: Not applicable (solid with a melting point >842 °F)
Flammability (solid, gas)	: Not flammable
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Relative density	: No information available
Density	: 2.6 g/cm <sup>3</sup>
Solubility	: Water: Negligible, Hydrofluoric acid: Soluble

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Partition coefficient n-octanol/water (Log Pow)	: Not applicable (solid inorganic substance)
Auto-ignition temperature	: Not applicable (not flammable)
Decomposition temperature	: Not applicable (solid with a melting point >842 °F)
Viscosity, kinematic	: Not applicable (solid with a melting point >450 °C)
Viscosity, dynamic	: Not applicable (solid with a melting point >842 °F)
Explosion limits	: No data available
Explosive properties	: Not applicable (not flammable)
Oxidizing properties	: Non oxidizing material

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Inert, not reactive.

### 10.2. Chemical stability

Chemically stable.

### 10.3. Possibility of hazardous reactions

No hazardous reactions.

### 10.4. Conditions to avoid

Not relevant.

### 10.5. Incompatible materials

No particular incompatibility.

### 10.6. Hazardous decomposition products

Not relevant.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Based on available data, the classification criteria are not met
Acute toxicity (dermal)	: Based on available data, the classification criteria are not met
Acute toxicity (inhalation)	: Based on available data, the classification criteria are not met

Nepheline syenite (37244-96-5)	
LD50 oral rat	> 2000 mg/kg (OECD 420 method) Read across: Feldspar
LD50 dermal rat	> 2000 mg/kg (OECD 402 method) Read across: Feldspar
Skin corrosion/irritation	: Based on available data, the classification criteria are not met. Read across: Feldspar. Feldspar is not irritating to skin (OECD 404, rabbit) pH: 10.3 (40% aqueous dispersion @68 °F)
Serious eye damage/irritation	: Based on available data, the classification criteria are not met. Read across: Feldspar. Feldspar is not irritating to eye (OECD 405, rabbit) pH: 10.3 (40% aqueous dispersion @68 °F)
Respiratory or skin sensitization	: Based on available data, the classification criteria are not met. Read across: Feldspar
Germ cell mutagenicity	: Based on available data, the classification criteria are not met. Read across: Feldspar. No mutagenic effect (OECD 471, OECD 490)

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Carcinogenicity	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Based on available data, the classification criteria are not met
STOT-single exposure	: Based on available data, the classification criteria are not met. Read across: Feldspar
STOT-repeated exposure	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable (solid with a melting point >450 °C)
Symptoms/effects	: No acute and delayed symptoms and effects are observed.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

#### Nepheline syenite (37244-96-5)

Persistence and degradability	Substance is inorganic and therefore not subject to biodegradation.
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### 12.3. Bioaccumulative potential

#### Nepheline syenite (37244-96-5)

Partition coefficient n-octanol/water (Log Pow)	Not applicable (solid inorganic substance)
Bioaccumulative potential	Not relevant. Bioaccumulation unlikely.

### 12.4. Mobility in soil

#### Nepheline syenite (37244-96-5)

Mobility in soil	Negligible
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### 12.5. Other adverse effects

Other adverse effects : No specific adverse effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	: Where possible recycling is preferred to disposal.
Product/Packaging disposal recommendations	: Store used packaging in enclosed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorised waste management company.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
Not regulated for transport			

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DOT	TDG	IMDG	IATA
<b>14.2. Proper Shipping Name</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

### 14.6. Special precautions for user

#### DOT

No data available

#### TDG

No data available

#### IMDG

No data available

#### IATA

No data available

### 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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Nepheline syenite	CAS-No. 37244-96-5	100%
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This product or mixture is not known to 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

#### Nepheline syenite (37244-96-5)

Listed on the NCI (Vietnam - National Chemicals Inventory)

### 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

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### SECTION 16: Other information

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Indication of changes:			
Section	Changed item	Change	Comments
1	Product code	Modified	

Training advice	: Workers must be trained in the proper use and handling of this product as required under applicable regulations.
Third party materials	: Insofar as materials not manufactured or supplied by SCR-Sibelco NV are used in conjunction with, or instead of SCR-Sibelco NV materials, it is the responsibility of the customer himself to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of SCR-Sibelco NV's NEPHELINE SYENITE in conjunction with materials from another supplier.
Other information	: Prolonged and/or excessive exposure to respirable dust may cause mucous membrane and respiratory irritation and lung injury with symptoms of shortness of breath and reduced pulmonary function. Inhalation of dust may cause irritation of nose, throat and respiratory passages.  The contents of this safety data sheet (SDS) are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.

Abbreviations and acronyms	
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
BCF	Bioconcentration factor
LC50	Median lethal concentration
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
DOT	Department of Transport
TDG	Transportation of Dangerous Goods
SDS	Safety Data Sheet

Revision date : 02/10/2022  
Version : 2.2

SDS US - Sibelco

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