A20N, A30N, A40N, A270N

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
SDS ID: SB00350
Revision date: 17/02/2023 Supersedes version of: 07/09/2020 Version: 6.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : A20N, A30N, A40N, A270N

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Pigment, Filler for: Building and construction work, Ceramics.

1.2.2. Uses advised against

Uses advised against : This product must not be used in applications other than those identified above, without first seeking advice of the supplier

1.3. Details of the supplier of the safety data sheet

Legal entity
SCR-Sibelco NV
Plantin en Moretuslei 1A
2018 Antwerpen - Belgium

Contact details
Sibelco Italy
Viale Dino Ferrari 75/83
Maranello
41053 Modena - Italy
T +39 0536 1962010
customersupport.it@sibelco.com

Contact details
Sibelco Spain
Capuchinos de Basurto 6 - 5º B
48013 Bilbao (Vizcaya) - Spain
T +34 946 66 30 80
customersupport.es@sibelco.com

1.4. Emergency telephone number

Emergency number : Sibelco UK: +44 1270 332 037
(during office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled. This product should be handled with care to avoid dust generation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : No other hazards identified.

Endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Other information : This product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Mainly: Nepheline syenite (37244-96-5)

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quartz (fine fraction)	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4 (REACH-no) E*	< 1	STOT RE 1, H372

Comments : * E: Exempted from REACH registration

Full text of H- and EUH-statements: see section 16

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, both acute and delayed

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

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

No special first aid measures necessary.

SECTION 5: Firefighting measures

5.1. 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. Special hazards arising from the substance or mixture

Fire hazard : Not combustible.

Hazardous decomposition products in case of fire : No hazardous thermal decomposition.

5.3. Advice for firefighters

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, see EN 143: 2021. CAUTION!. Material becomes extremely slippery when wet.

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.

7.3. Specific end use(s)

If you require advice on specific uses, please contact your supplier or check the Good Practice Guide referred to in section 16.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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.

Exposure limit values for the other components

Respirable Crystalline Silica (quartz) (14808-60-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Silica crystaline (Quartz)
IOEL TWA	0.1 mg/m³ (respirable dust) - Binding OEL
Regulatory reference	Directive (EU) No. 2017/2398
Ireland - Occupational Exposure Limits	
Local name	Quartz, respirable dust
OEL TWA [1]	0.1 mg/m³
Remark	BOELV (Binding Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2021
United Kingdom - Occupational Exposure Limits	
Local name	Silica, respirable crystalline
WEL TWA (OEL TWA) [1]	0.1 mg/m³ (respirable fraction)
Remark	Carc (where generated as a result of a work process)
Regulatory reference	EH40/2005 (Fourth Edition, January 2020), HSE

8.1.2. Recommended monitoring procedures

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).

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. 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.

8.2.2. Personal protection equipment

Personal protective equipment:
Safety glasses. Dust formation: dust mask.
Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

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

8.2.2.2. Skin protection

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.

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.

8.2.2.3. Respiratory protection

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 3 (FP3) is recommended. See EN 143: 2021 - Respiratory protective devices. Particle filters

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid wind dispersal.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	White, grey
Appearance	:	Powder
Odour	:	Odourless
Odour threshold	:	Not available
Melting point	:	1250 – 1300 °C
Boiling point	:	Not applicable
Flammability	:	Not flammable
Explosive properties	:	Not applicable (not flammable)
Explosive limits	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable (not flammable)
Decomposition temperature	:	Not applicable
pH	:	Not applicable
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable
Solubility	:	Water: Insoluble
Partition coefficient n-octanol/water (Log Pow)	:	Not applicable
Vapour pressure	:	Not applicable
Density	:	2.5 – 2.7 g/cm³
Relative density	:	No information available
Relative vapour density at 20°C	:	Not applicable
Particle size	:	Not available
Particle size distribution	:	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Oxidising properties : Non oxidizing

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not applicable

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Skin corrosion/irritation : Based on available data, the classification criteria are not met
pH: Not applicable

Serious eye damage/irritation : Based on available data, the classification criteria are not met
pH: Not applicable

Respiratory or skin sensitisation : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Based on available data, the classification criteria are not met

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

STOT-repeated exposure : This product is not classified as STOT RE according to criteria defined in the Regulation EC 1272/2008. Prolonged and massive exposure to feldspar respirable dust containing crystalline silica may lead to pneumoconiosis. Results indicate that the severity of effects may increase with the amount of crystalline silica in the respirable dust. There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see section 16 below for more information).

Aspiration hazard : Based on available data, the classification criteria are not met

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Viscosity, kinematic	Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Contains no substances identified as having endocrine disrupting properties

11.2.2 Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not relevant

Hazardous to the aquatic environment, long–term (chronic) : Not relevant

12.2. Persistence and degradability

A20N, A30N, A40N, A270N	
Persistence and degradability	Substance is inorganic and therefore not subject to biodegradation.

12.3. Bioaccumulative potential

A20N, A30N, A40N, A270N	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Bioaccumulative potential	Not relevant. Bioaccumulation unlikely.

12.4. Mobility in soil

A20N, A30N, A40N, A270N	
Mobility in soil	Negligible

12.5. Results of PBT and vPvB assessment

A20N, A30N, A40N, A270N	
Results of PBT and vPvB assessment	Not relevant

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Contains no substances identified as having endocrine disrupting properties

12.7. Other adverse effects

Other adverse effects : No specific adverse effects known

SECTION 13: Disposal considerations

13.1. Waste treatment 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 ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport (ADR)
Not regulated

Transport by sea (IMDG)
Not regulated

Air transport (IATA)
Not regulated

Inland waterway transport (ADN)
Not regulated

Rail transport (RID)
Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
Contains no substance(s) listed on the REACH Candidate List
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Other information, restriction and prohibition regulations : Works involving exposure to respirable crystalline silica dust generated by a work process are included in Directive (EU) 2017/2398 of 12 December 2017 amending Directive 2004/37/EC on the Protection of Workers from the risks related to exposure to Carcinogens or Mutagens at work.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Exempted from REACH Registration in accordance with Annex V.7 of Regulation (EC) 1907/2006

SECTION 16: Other information

Indication of changes:			
Section	**Changed item**	**Change**	**Comments**
2.3	Other information	Added	
8.1	Monitoring methods	Modified	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
15.1	Other information, restriction and prohibition regulations	Added	

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 A20N - A30N - A40N - A270N in conjunction with materials from another supplier.

Social dialogue on respirable crystalline silica : In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France).
In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. “There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk…“ (SCOEL SUM Doc 94-final, June 2003).
In 2009, in the Monographs 100 series, IARC confirmed its classification of Silica Dust, Crystalline, in the form of Quartz and Cristobalite (IARC Monographs, Volume 100C, 2012)
A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission’s financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from http://www.nepsi.eu and provide useful information and guidance for the handling of products containing crystalline silica (fine fraction). Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

Other information : This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents 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:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative
BCF	Bioconcentration factor
LC50	Median lethal concentration
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
PNEC	Predicted No-Effect Concentration
DNEL	Derived-No Effect Level
SDS	Safety Data Sheet

Full text of H- and EUH-statements:	
H372	Causes damage to organs through prolonged or repeated exposure.
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

SDS EU - SB

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.