

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name ADVERA® 401PS Aluminosilicate
Alternative names Hydrated zeolite sodium A powder
CAS No. 1318-02-1
EINECS No. 215-283-8

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

Identified use(s) General purpose industrial chemical for use in a wide range of applications. Adsorbent or absorbent ; Binding agent ;
Complexing agent ; Intermediate
Uses advised against None known.

1.3 Details of the supplier of the safety data sheet

Company Identification PQ Corporation
P.O. Box 840
Valley Forge
PA 19482
USA
Telephone: +1 610-651-4200
E-Mail (competent person) sds.uk@pqcorp.com

1.4 Emergency telephone number

Emergency Phone No. +1 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification Not classified as dangerous for supply/use.

2.2 Label elements

Hazard pictogram(s)

Signal word(s) Not applicable.

Hazard statement(s) None.

Precautionary statement(s) None.

2.3 Other hazards Not classified as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Regulation (EC) No. 1272/2008 (CLP)

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	Hazard symbol(s) and hazard statement(s)
Zeolite	78-82	1318-02-1	215-283-8	Not classified
Water	18-22	7732-18-5	231-791-2	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact	If substance has got into the eyes, immediately wash out with plenty of water. Obtain immediate medical attention.
Skin Contact	Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.
Inhalation	Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.
Ingestion	Do not induce vomiting. Wash out mouth with water. If large amount swallowed or symptoms develop obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Exposure to any kind of dust is potentially harmful.

4.3 Indication of any immediate medical attention and special treatment needed

See Section: 4.1

SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Suitable Extinguishing Media Compatible with all standard fire fighting techniques.

Unsuitable extinguishing Media None known.

5.2 Special hazards arising from the substance or mixture Not applicable. Inorganic powder or granules. Non-combustible.

5.3 Advice for fire-fighters None.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling. See Section: 8.2

6.2 Environmental precautions

This product is virtually inert and has no known adverse effect on the environment.

6.3 Methods and materials for containment and cleaning up

Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

6.4 Reference to other sections

See also Section 8

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid generation of dust. Handle in accordance with good industrial hygiene and safety practices.

See Also Section 8.

A considerable static electrical charge can be built up during mechanical handling which may become a hazard in atmospheres containing flammable vapours. Advice on the control of static is given in British Standard BS 5958.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and dry.

7.3 Specific end use(s)

Identified uses are described further after section 16 of this document.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

SUBSTANCE.	Occupational Exposure Limits
Sodium aluminosilicate	UK EH40: Dust Total inhalable: WEL 10mg/m ³ 8h TWA. Respirable: WEL 4mg/m ³ 8h TWA. ACGIH: Particulates not otherwise classified Inhalable TLV 10mg/m ³ 8h TWA. Respirable: TLV 3mg/m ³ 8h TWA. OSHA: Inert or Nuisance Dust Total dust : PEL 15mg/m ³ 8h TWA. Respirable fraction : PEL 5mg/m ³ 8h TWA.

8.2 Exposure controls

Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

8.2.1 Appropriate engineering controls

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

8.2.2 Personal Protection

Respiratory protection

Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Dust mask: FFP1 (EN 149).

Eye/face protection

Safety spectacles. Goggles.

Skin protection

Wear suitable protective clothing and gloves.

Plastic or rubber gloves. For example EN374-3.

Wear suitable overalls. For example EN ISO 13982 (dust), EN 14605 (liquid splashes).

8.2.3 Environmental Exposure Controls

Avoid generation of dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Powder. White.
Odour	Odourless.
Odour Threshold (ppm)	Not applicable.
pH (Value)	10.0-11.9 at 1% w/w in water
Freezing Point (°C)	Not applicable.
Melting Point (°C)	> 1000
Boiling Point (°C)	Not applicable.
Flash Point (°C) [Closed cup]	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not applicable.
Vapour pressure (Pascal)	
Vapour Density (Air=1)	Not applicable.
Density (g/ml)	No data.
Solubility (Water)	Insoluble.
Solubility (Other)	No data.
Partition Coefficient	No data.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not applicable.
Viscosity (mPa. s)	Not applicable.
Explosive properties	Not applicable.
Oxidising Properties	Not applicable.
9.2 Other information	No data.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	See Section: 10.3
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	None known.
10.4 Conditions to avoid	See Section: 10.3
10.5 Incompatible materials	See Section: 10.3
10.6 Hazardous decomposition product(s)	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion	Oral LD50 (rat) >2000 mg/kg bw
Inhalation	Sodium aluminosilicate is considered to be a nuisance dust and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However, existing medical conditions (eg. asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of exposure in smokers compared to non-smokers. Inhalation LC50 (rat) >575 g/m ³
Skin Contact	Dust may have a drying effect on the skin. Dermal LD50 (rat) >2000 mg/kg bw
Eye Contact	Dust may cause discomfort and mild irritation.
Skin corrosion/irritation	Non-irritant. Dust may have a drying effect on the skin.
Serious eye damage/irritation	Non-irritant.
Sensitisation	Not sensitising.
Mutagenicity	No evidence of genotoxicity. In vitro/in vivo negative.
Carcinogenicity	No structural alerts. IARC assessment: Similar material (synthetic zeolite) is not classifiable as to its carcinogenicity to humans (Group 3).
Reproductive toxicity	No evidence of reproductive toxicity or developmental toxicity.
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified. NOAEL oral (rat) 250-300 mg/kg bw/d
Aspiration hazard	Not classified
Other information	Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Sodium aluminosilicate is virtually inert and has no known adverse effect on the environment. Fish (Fathead minnow (<i>Pimephales promelas</i>)) LC50 (96 hour) >680 mg/l Aquatic invertebrates: (<i>Daphnia magna</i>) EC50 (48 hour) >100 mg/l
12.2 Persistence and degradability	Inorganic.
12.3 Bioaccumulative potential	Inorganic. The substance has no potential for bioaccumulation.
12.4 Mobility in soil	Not applicable.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	Sinks in water

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods** Disposal should be in accordance with local, state or national legislation.
Not a hazardous waste under RCRA Sec.3001.
May be disposed of by landfill in accordance with local regulations.
This material is not classified as hazardous waste under EC Directive 2008/98/EC (and amendments). This material is not classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894.

SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number** Not applicable.
14.2 Proper Shipping Name Not applicable.
14.3 Transport hazard class(es) Not classified as dangerous for transport.
14.4 Packing group Not applicable.
14.5 Environmental hazards Not classified as a Marine Pollutant.
14.6 Special precautions for user None known. No special packaging requirements.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

SECTION 15: REGULATORY INFORMATION

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

TSCA Inventory Status: Reported/Included.
AICS Inventory Status: Reported/Included.
DSL/NDSL Inventory Status: Reported/Included.
There is no CERCLA Reportable Quantity for this material.
SARA TITLE III: This material is not a listed Toxic Chemical subject to the reporting requirements of SARA Title III §313 and 40 C.F.R. Part 372. Hazard Categories under SARA Title III §§311/312: Acute.
German Water Hazard Classification VwVwS: WGK class 1 (low hazard to water).
1,0,0

SECTION 16: OTHER INFORMATION

Data referenced in this eSDS is from company-owned information and from data legitimately accessed by PQ Corporation through membership of Industry Consortia or other agreements. This includes data relating to toxicology, ecotoxicology, DNELs, PNECs and other information in this eSDS and its annex.

This SDS was last reviewed: 05/2020

The following sections contain revisions or new statements: No significant changes required to this version at last review.

This product does not meet the criteria for requiring a safety data sheet in accordance with REACH (Article 31). This product is not classified as hazardous so exposure scenarios are not required.

GLOSSARY

DNEL : Derived No Effect Level

PNEC Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

EC Classification : According to Directive 67/548/EEC & Directive 1999/45/EC

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. PQ Corporation gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. PQ Corporation accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.