

SECTION 1: Identification of the substance/mixture and of the company**1.1 Product Identifier**

Substance name	SiliaQuick™ Primary Sec. Amine nec for QuEChERS
Product code	AUT-1312
EC number	Not available
REACH registration number	Not available
CAS number	7631-86-9
Chemical name (Other means of identification)	Primary Secondary Amine, 3-(Ethylenediamino)propyl

1.2 Relevant identified uses of the substance and uses advised against

Relevant Identified uses	Purification, Laboratory chemicals, Manufacture of substances, metal scavengers.
Uses advised against	Uses by consumers [SU 21].

1.3 Details of the supplier of the Safety Data Sheet

Supplier's details	Zeochem Silica Materials Inc. (formerly SiliCycle). 2500, Parc-Technologique Blvd, Quebec City, QC, Canada G1P 4S6 Tel: 418-874-0054 Fax: 418-874-0355 Info@silicycle.com www.silicycle.com
National Contact (EC)	B-Lands Consulting clients@reach-compliance.eu

1.4 Emergency telephone number

Emergency telephone number Telephone / Hours of operation	+1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week
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SECTION 2: Hazards identification**EMERGENCY OVERVIEW** Handling and/or processing of this material may generate dust which can cause mechanical irritation of the eyes, nose and throat.**2.1 Classification of the substance or mixture**

Classification according to GHS, to Regulation (EC) No. 1272/2008 (CLP), to 29 CFR §1910.1200 and to Chinese requirement GB T 16483-2008

None

2.2 Label elements

Labeling according to GHS, to Regulation (EC) No. 1272/2008 (CLP), to 29 CFR §1910.1200 and to Chinese requirement GB T 16483-2008

Hazard pictograms	No hazard pictogram
Signal word	No signal word

Hazard statements

No hazard statements

Precautionary statement

No precautionary statements

Supplemental Hazard information (EU)

Not applicable

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients**3.1 Substances**

Substance name	CAS	EINECS #	ICSC #	Purity
SiliaQuick™ Primary Sec. Amine nec for QuEChERS	7631-86-9	Not available	Not Listed	≥ 99.5%

Common name and synonyms	Primary Secondary Amine, 3-(Ethylenediamino)propyl
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures**4.1 Description of first aid measures**

Following inhalation	Remove victim to fresh air and keep at rest in a comfortable position for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position.
Following skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes.
Following eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if necessary.
Following ingestion	Wash out mouth with water. Don't induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	First aider: Pay attention to self-protection! No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire. (Carbon dioxide, foam, dry chemicals, halon or water spray).
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5.2 Specific hazard arising from the substance

Specific hazard arising from the chemical	No specific fire or explosion hazard.
Hazardous thermal decomposition products	No specific data.

5.3 Advice for fire-fighters

Special protective equipment and precautions for Fire fighters	Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.
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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing dust. Put-on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of split material and runoff and contact with soil, waterways, drain and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

For containment	Collect in closed and suitable containers for disposal.
For cleaning up - Large spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
For cleaning up - Small spill	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, watercourses, basements and confined areas. Vacuum materials and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Other information	None

6.4 Reference to other sections

Personal protection equipment: see Section 8.

Disposal: see Section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Measures to prevent fire	Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
Measures to prevent aerosol and dust generation	Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
Measures to protect the environment	Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Keep dry and cold (under 8°C)
Requirement for storage rooms and vessels	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.
Further information on storage conditions	Protect containers against damage. Do not store in unlabeled containers.

7.3 Specific end use (s)

Recommendations: Metal Scavengers, Laboratory chemicals, Manufacture of substances.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Substance name	CAS #	ACGIH TLV	OSHA PEL
SiliaQuick™ Primary Sec. Amine nec for QuEChERS	7631-86-9	Not available.	Not available.

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Substance related measures to prevent exposure during identified uses	No specific measures
Structural measures to prevent exposure	No specific measures
Organizational measures to prevent exposure	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Do not breathe vapors or spray mist.
Technical measures to prevent exposure	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8.2.2 Personal protective equipment

Eye/face protection	Safety eyewear should be used when there is a likelihood of exposure. Recommended: If operating conditions cause high dust concentrations to be produced, use dust goggles.
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Skin protection

Hand protection	Use gloves appropriate for work or task being performed. Recommended: Nitrile rubber
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Not required under normal conditions of uses. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure an MSHA/NIOSH-approved respirator or equivalent is used.
Thermal hazards	No specific measures

8.2.3 Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the Local requirements of environmental protection legislation. In some case, dust collection filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Substance related measures to prevent exposure	No specific measures
Instruction measures to prevent exposure	No specific measures
Structural measures to prevent exposure	No specific measures
Organizational measures to prevent exposure	No specific measures
Technical measures to prevent exposure	No specific measures

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

(a) Physical state	Solid
(b) Colour	White to off-white
(c) Odor	Not available
(d) Melting point/freezing point	1710°C (Regulation (EC) No 440/2008, Annex, A.1)
(e) Initial boiling point and boiling range	2230°C (Regulation (EC) No 440/2008, Annex, A.2)
(f) Flammability (solid, gas)	Not applicable.
(g) Upper/lower flammability or explosive limits	Not applicable.
(h) Flash point	Not applicable. (Regulation (EC) No 440/2008, Annex, A.9)
(i) Auto-ignition temperature	No data available. (Regulation (EC) No 440/2008, Annex, A.15)
(j) Decomposition temperature	No data available.
(k) pH	No data available.
(l) Viscosity	No data available.
(m) Solubility(ies)	Insoluble. (Regulation (EC) No 440/2008, Annex, A.6)
(n) Partition coefficient: n-octanol/water	No data available. (Regulation (EC) No 440/2008, Annex, A.8)
(o) Vapor pressure	Not applicable. (Regulation (EC) No 440/2008, Annex, A.4)
(p) Relative density (g/L)	500-730 (Regulation (EC) No 440/2008, Annex, A.3)
(q) Vapor density	Not applicable.
(r) Particles shape	Irregular

9.2 Other information

No additional information relevant to safe use of the substance.

SECTION 10: Stability and reactivity

10.1 Reactivity	Product is stable
10.2 Chemical stability	The substance is chemically stable under recommended conditions of storage, use and temperature.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	no information available
10.5 Incompatible materials	Oxidizing agent
10.6 Hazardous decomposition products	See section 5

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Information on the likely routes of exposure	None
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Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	May cause respiratory irritation (respiratory tract irritation coughing)
Skin contact	May cause skin irritation (dryness and/or itchiness and/or redness)
Eye contact	May cause eye irritation (redness)
Ingestion	No data available

Delayed and immediate effects and also chronic effects from short and long-term exposure**Short term exposure**

Potential immediate effects	No data available
Potential delayed effects	No data available

Long term exposure

Potential immediate effects	No data available
Potential delayed effects	Not available.

Potential chronic health effects

Carcinogenicity	No data available
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.

11.2 Additional information

No data available

SECTION 12: Ecological information**12.1 Toxicity**

fish toxicity	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to other aquatic plants/organisms	No data available

12.2 Persistence and degradability

Abiotic Degradation	Not available.
Biodegradation	No data available
Assessment/Classification	Not available.

12.3 Bioaccumulative potential

Bioaccumulation	No data available
Partition coefficient: octanol/water	No data available

12.4 Mobility in soil

Mobility	Not available.
Surface tension	Not available.
Assessment/Classification	Not available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT and vPvB criteria of REACH, annex XVIII.

12.4 Other adverse effects

None known

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste products residue should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

EEC: Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

	TDG	IMDG	IATA/ICAO	DOT
14.1 UN number	This product is not regulated for transport			
14.2 UN proper shipping name				
14.3 Transport hazard class(es)				
14.4 Packing group*				
14.1 Special precautions for user				
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage				

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****U.S. Federal regulations**

United States inventory (TSCA 8b)	Not applicable, low volume.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	This substance is not listed.
Clean Air Act Section 602 Class I Substances	This substance is not listed.
Clean Air Act Section 602 Class II Substances	This substance is not listed.
DEA List I Chemicals (Precursor Chemicals)	This substance is not listed.

SARA 302/304

Composition/information on ingredients	No products were found.
SARA 304 RQ	Not applicable.

SARA 311/312

Classification	Not applicable.
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SARA 313

	No products were found.
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State Regulations

Massachusetts	This substance is not listed.
Ney York	This substance is not listed.
New Jersey	This substance is not listed.
Pennsylvania	This substance is not listed.
California Prop. 65	This substance is not listed.

Canada (Canadian lists)

Canadian NPRI	This substance is not listed.
CEPA Toxic substances	This substance is not listed.
Canada Inventory	This substance is not listed.

EU Regulations

Authorizations and/or restriction on use	No known restriction Refer to section 1 for information on REACH status.
Other EU legislation	Commission Regulation (EU) No 474/2014 of 8 May 2014 amending Annex XVII to Regulation (EC) No 1907/2006 Commission Regulation (EU) No 944/2013 of 2 October 2013 (5 th ATP) amending Regulation (EC) No 1272//2008 on classification, labelling and packaging of substances and mixtures Waste Framework Directive 2008/98/EC

National Regulations (UK)

UK legislation	Management of Health and Safety at Work Regulations (1999) Control of substances Hazardous to Health Regulations (COSHH 2002) Personal Protective Equipment Regulations (2002)
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International lists (National inventory)

China	Not determined.
Australia	Not determined.
Japan	Not determined.
New Zealand	Not determined.
Philippines	Not determined.
Taiwan	Not determined.

15.2 Chemical Safety Assessment

Listed on TSCA

SECTION 16: Other information

Version:	3.0
Description of Modification:	Company name and frame update
Abbreviations and acronyms	
Å: Angstrom (unit of measure)	
ACGIH: American Conference of Governmental Industrial Hygienists	
ADN/ADNR: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (AND) and on the Rhine (ADNR)	
ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR)	
AICS: Australian Inventory of Chemical Substances	
ATP: Adaptation to Technical Progress	
CAS No: Chemical Abstract Service Number	
CEPA: Canadian Environmental Protection Act	
CLP: Classification Labelling and Packaging Regulation	
DEA: Drug Enforcement Agency (U.S.)	
DNEL: Derived No-Effect Level	
DOT: Department of Transportation (U.S.)	
ES: Exposure scenario	
ERC: Environmental Release Category EC: European Commission	
EC No: European Chemical Number: EINECS, ELINCS or NLP ECHA: European chemical Agency	
EEC: European Economic Community	
IENECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
ERC: Environmental Release Category EU: European Union	
GHS: Globally Harmonized System of Classification and Labelling of Chemicals	
GLP: Good Laboratory Practice	
HMIS: Hazardous Materials Identification System (U.S.)	
IATA/ICAO: International Air Transport Association/International Civil Aviation Organization	
ICSC: International Chemical Safety Cards	
LC50: Lethal concentration, 50%	
LD50: Median Lethal dose	
MARPOL: International convention covering prevention of pollution of the marine environment by ships from operational or accidental causes.	
NFPA: National Fire Prevention Association	
NLP: No-longer Polymers (inventory list in EU)	
NOAEL: No observed Adverse Effect Level	
NPRI: National Pollutant Release Inventory (Canada)	
OECD: Organisation for Economic Co-operation and Development	
OSHA: Occupational Safety and Health Administration (US)	
PBT: Persistent, Bioaccumulative and Toxic	
PC: Product Category	
PNEC: Predicted No Effect Concentration	
PROC: Process Category	
REACH: Registration, Evaluation, Authorisation and Restrictions of Chemical SARA: Superfund Amendments and Reauthorization Act (U.S.)	
SDS: Safety Data Sheet	
STOT SE: Specific target organ toxicity – single exposure SU: Sector of Use	
TSCA: Toxic Substances Control Act (U.S.)	
TWA: Time-weighted average	
µm: micron (unit of measure)	
UN: United Nations	
U.S.: United States	
vPvB: Very Persistent and Very Bioaccumulative	
WEL: Workplace Exposure Limits	
WHMIS: Workplace Hazardous Materials Information System (Canada)	
WT%: percentage by weight	
Training advice	Substance should only be handled by trained operators

Additional information (Notice to reader):

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other substances/products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. 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.