



Safety Data Sheet

Aldex NSR

1. Identification

Product identifier: Aldex NSR
Other means of identification: NSR
Recommended use: Specialised resin for nitrates removal from water.
Restriction on use: For professional use only.
Supplier Name: Aldex Chemical Co. Ltd
630 Laurent
Granby, Québec
Canada, J2G 8V1
info@aldexchemical.com
Telephone: 450 372-8844
Emergency tel. number: 800 424-9300
Available hours: 24h - 7/7

2. Hazard identification

Signal word: NONE
Product classification: This product is not regulated under WHMIS 2015 and HCS 2024.
Hazard statement(s): This product is not a hazardous material.

Precautionary statement(s)

Prevention: Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product. Wear protective gloves, protective clothing, eye and face protection.

Response: Not applicable

Storage: Not applicable

Disposal: Dispose of contents/container in accordance with local, regional, national and/or international regulations in force.

Other hazards: Not applicable

See toxicological information, section 11



Safety Data Sheet

Aldex NSR

3. Composition / Information on ingredients

No	CAS No :	Common name and synonyms	Concentration % (w/w)
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	42.00 - 52.00

4. First-aid measures

If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation, get medical attention.

Skin contact: Remove contaminated clothing immediately. Wash the skin with soap and water. Thoroughly wet contaminated clothing. If irritation, consult a doctor.

Inhalation: Move exposed person to fresh air. Keep this person warm and lying down. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting unless instructed by medical personnel.

Symptoms: No known symptoms.

Effects (acute or delayed): No known effect.

Immediate medical attention and special treatment: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Jets of water can facilitate the spread of fire.

Specific hazards arising from the hazardous product: May release dangerous fumes.

Hazardous combustion products: Carbon monoxide and dioxide. Hydrochloric acid and phosgen. Chlorides. Nitrogen oxides.

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.



Safety Data Sheet

Aldex NSR

6. Accidental release measures

Personal precautions: N/A

Protective equipment and emergency procedures: N/A

Methods and materials for containment and cleaning up: N/A

7. Handling and storage

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). 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. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust or mist. 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.

Conditions for safe storage: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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. Use appropriate containment to avoid environmental contamination.

Not applicable

Incompatibility: Strong acids and bases as well as strong oxidizing agent.

8. Exposure Controls/ Personal protection

Control parameters:

Occupational exposure limit values:

Alberta

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

British-Columbia

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed



Safety Data Sheet

Aldex NSR

Ontario

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Quebec

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Saskatchewan

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

United States

No	CAS No :	Common name and synonyms	IDLH NIOSH	Regulatory Limits			Recommended Limits	
				OSHA PEL		California / OSHA PEL	NIOSH REL	ACGIH [®] 2025 TLV [®]
				ppm	mg/m ³	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

IDLH: Immediately Dangerous to Life or Health Concentrations

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limits

California / OSHA: California Division of Occupational Safety and Health

REL: Recommended Exposure Limits

ACGIH[®]: American Conference of Governmental Industrial Hygienists

TLV[®]: Threshold Limit Values

Appropriate engineering controls: N/A

Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes: DO NOT WEAR CONTACT LENSES Wear anti-splash safety goggles.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are



Safety Data Sheet

Aldex NSR

still retaining their protective properties.

Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

Others: Wear protective clothing with long sleeves and appropriate safety shoes at all times.

9. Physical and chemical properties

Physical state: Solid

Colour: Beige

Odour: None

Melting/Freezing point: Not applicable

Initial boiling point/boiling range: Not applicable

Flammability: Not applicable

Lower flammable/explosive limit: Not applicable

Upper flammable/explosive limit: Not applicable

Flash point: Not applicable

Auto-ignition temperature: 500 °C (932 °F)

Decomposition temperature: Not available

pH: 7 in suspension

Kinematic viscosity: Not applicable

Solubility (in water): Insoluble

Partition coefficient – n-octanol/water (Log Kow): Not applicable

Vapour pressure: Not applicable

Density and relative density: 1.061 - 1.081 kg/L at 20 °C (water = 1)

Relative vapour density: Not applicable

Particle characteristics: 300 - 1200 microns

10. Stability and reactivity

Reactivity: Stable under recommended conditions of storage and handling.

Chemical stability: The product is chemically stable under normal conditions of use.

Possibility of hazardous reactions: No dangerous or polymerization reactions will not occur under normal conditions of use. May release toxic and corrosive products when heated.

Conditions to avoid: Keep away from incompatible products (see section 7). Some risk may be expected of corrosive and toxic decomposition products. To avoid thermal decomposition, do not overheat.

Incompatible materials: This product attacks stainless steel.

Hazardous decomposition products: Carbon monoxide and dioxide. Chlorides. Nitrogen oxides.



Safety Data Sheet

Aldex NSR

11. Toxicological information

	Oral	Dermal	Inhalation gases	Inhalation vapours	Inhalation dusts/mists
ATE _{product}	> 5 000 mg/kg	> 5 000 mg/kg	N/A	> 20 mg/l	> 5 mg/l

No	CAS No :	Common name and synonyms	LD ₅₀ oral mg/kg	LD ₅₀ skin mg/kg	LC ₅₀ inhalation ppmV 4h - gases	LC ₅₀ inhalation mg/l 4h - vapours	LC ₅₀ inhalation mg/l 4h - dusts-mist
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	> 5000	> 5000	N/A	N/A	> 5.00

Routes of exposure: This product is absorbed by the digestive tract.

Symptoms: No known symptoms.

Delayed and immediate effects: No known effect.

Aspiration hazard	N/A
Skin corrosion - Skin irritation	N/A
Serious eye damage - Serious eye irritation - Eye irritation	N/A
Skin sensitization	N/A
Respiratory sensitization	N/A
Specific target organ toxicity – single exposure	N/A
Specific target organ toxicity – single exposure Category 3 Narcotic effects	N/A
Specific target organ toxicity – single exposure Category 3 Respiratory tract irritation	N/A
Specific target organ toxicity – repeated exposure	N/A

No	CAS No :	Common name and synonyms	IARC	ACGIH	Mutagenicity	Effect on reproduction
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	Not listed	Not listed	No effects shown.	No effects shown.

Cancer classification under IARC (International Agency for Research on Cancer)

- Group 1: carcinogenic to humans.
- Group 2A: probably carcinogenic to humans.
- Group 2B: possibly carcinogenic to humans.
- Group 3: not classifiable as to its carcinogenicity to humans.
- Group 4: probably not carcinogenic to humans.

Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

- Group A1: confirmed human carcinogen.
- Group A2: suspected human carcinogen.
- Group A3: confirmed animal carcinogen with unknown relevance to humans.
- Group A4: not classifiable as a human carcinogen.
- Group A5: not suspected as a human carcinogen.



Safety Data Sheet

Aldex NSR

12. Ecological information

Ecotoxicity

No	CAS No :	Common name and synonyms	%	Aquatic Ecotoxicity short term	Aquatic Ecotoxicity long term	Terrestrial Ecotoxicity
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	42.00 - 52.00	No known adverse effect to aquatic life.	No known adverse effect to aquatic life.	No known adverse effect to the environment.

Persistence and degradability. Bioaccumulative potential. Other adverse effects

No	CAS No :	Common name and synonyms	%	Persistent	Bio-accumulation	Aquatic ecotoxicity
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	42.00 - 52.00	N/A	N/A	N/A

Degradability: N/A

Mobility in soil: N/A

13. Disposal considerations

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. 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 local authority requirements.

14. Transport information

	TDG	DOT	IMDG	IATA
UN Number				
Proper shipping name	NOT REGULATED	NOT REGULATED	NOT REGULATED	NOT REGULATED
Transport hazard class(es)				
Packing group				

Canada - ERAP

Not applicable



Safety Data Sheet

Aldex NSR

United States - Reportable Quantities (RQ)

Not applicable

Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)): N/A

Marine pollutant: No

Exemption for limited quantity: Not applicable

Other exemptions: Not applicable

Special precautions: Not applicable

15. Regulatory information

Canada

No	CAS No :	Common name and synonyms	%	DSL	NDSL	NPRI
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	42.00 - 52.00			

United States

No	CAS No :	Common name and synonyms	%	TSCA	PROP-65	RTK
1	63453-90-7	Polyvinyl benzyl triethyl ammonium chloride	42.00 - 52.00			

The classification of the product and the SDS were developed in accordance with HPR 2015 and HCS 2024.

16. Other information

Date: 2025-07-17

Version: 2

Notice to reader: The manufacturer hereby declares that the information disclosed herein have been based on governmental sites and/or raw material supplier's. The manufacturer has no control over the nature and content of such information. The manufacturer fully reproduces all the information it holds on the constituent of the product, at the time it is manufactured. The manufacturer does not assume 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. By this data sheet, the manufacturer hereby discloses all the potential dangers it has knowledge of and which might be related to the using or manipulation of the product in order to allow the proper care to be brought and use with regard to the product. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist and notification is hereby given to the user. Notice is hereby given that injury can derive therefrom if the foregoing is not respected. The manufacturer assumes no responsibility for personal and/or material damage, lost or injury of whichever nature caused or which may occur following the wrongful, inappropriate, negligent or abusive use or handling of the product or from not having read the herein contained information.