

MATERIAL SAFETY DATA SHEET

Revision #: 03

Section 1 - Product Identification & Use

Product Name: Noriquat
Product Use: No rinse sanitizing and disinfecting.
WHMIS Classification: Class D2B
TDG Classification: Non-Regulated Product
Manufacturer: Advance Chemicals Ltd.
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Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD ₅₀ & LC ₅₀
Alkyl (C ₁₂ - C ₁₆) dimethyl benzyl ammonium chloride	1-5	68424-85-1	no data
Dialkyl (C ₈ - C ₁₀) dimethyl ammonium chloride	1-5	68424-95-3	no data
Ethyl alcohol	0.5-1.5	64-17-5	no data

Section 3 - Physical Data

Physical state: liquid **Boiling point:** no data
Liquid density: 1.0 g/mL **Freezing point:** no data
pH: neat 6.5 - 8.5 **Solubility in water:** 100%
Vapour pressure: no data **Evaporation rate:** no data
Odour & Appearance: Clear, violet liquid. Will foam with agitation.

Section 4 - Fire or Explosion Hazard

Flammability: The product is not considered to be flammable.
Extinguishing media: Use an extinguishing media for surrounding the fire, or all-purpose foam by manufacturer's recommended techniques for large fires. Use water to cool fire exposed containers to prevent vapour build-up and rupture. Water may also be used to flush spills away from dangerous exposures.
Hazardous Combustion Products: This product may produce oxides of carbon or oxides of nitrogen.

Section 5 - Reactivity Data

Stability: Stable.
Incompatible substances: Concentrated and strong oxidizing agents.
Polymerization: Will not occur.
Conditions to Avoid: Excessive heat, sparks and open flame.
Hazardous Combustion Products: This product may produce oxides of carbon or oxides of nitrogen.

Section 6 - Toxicological Properties

Skin contact: Can cause redness.
Eye contact: Can cause irritation, watering, reddening and swelling.
Inhalation: Can cause irritation.
Ingestion: Can cause vomiting, headache and other medical problems.
Carcinogenicity: Not known.

Section 7 - Preventative Measures

Personal Protective Equipment: Avoid contact with eyes. Wear safety goggles with side shields. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of eye injury. Wear long sleeved shirt, trousers and safety shoes.
Respiratory protection: A respirator is normally not required if this product is used with adequate ventilation.
Ventilation Requirements: General room ventilation is adequate.
Other Measures: An eyewash and safety shower should be located nearby and ready for immediate use.
Action to take for spills & leaks: Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be wiped up with absorbent material and disposed of in government approved waste containers. The spill area may then be flushed with large quantities of water. Larger spills should be contained by diking with sand, soil or other absorbent, non-combustible material, then transferred into approved waste

containers for proper disposal. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste.

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

Storage & Handling Precautions: Keep container away from excessive heat, sparks and flames. Store in a cool, dry, well-ventilated location. Do not store product near incompatible materials. Warning, causes eye irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Do not use pressure to empty container. Wash thoroughly after handling. Use with adequate ventilation. Tanks must be grounded and ventilated. Ensure proper electrical grounding procedures are in place during product transfer.

Repair and Maintenance Precautions: Do not cut, grind, weld or drill in, on or near this container.

Other Precautions: Containers, even those that have been emptied, will retain product residue and vapours. Always obey hazard warnings and handle empty containers as if they were full, and dispose of in an approved manner.

Section 8 - First Aid Measures

IF INHALED: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention.

IN CASE OF EYE CONTACT: Immediately flush eyes with clean water for at least fifteen (15) minutes, lifting the upper and lower eye lids occasionally. Get immediate emergency medical attention.

IN CASE OF SKIN CONTACT: Flush skin with plenty of clean running water for at least fifteen (15) minutes. Remove contaminated clothing and shoes. Wash and launder clothes before re-use. If irritation persists after washing, seek medical attention.

IN CASE OF INGESTION OR SWALLOWING: If victim is conscious and medical attention is not immediately available, dilute stomach contents by giving large amounts of water or milk. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. Get immediate emergency medical attention.

Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all-inclusive, and the manner and conditions of use may involve other and additional considerations.

Revised: 12 July 2004, November 6, 2006; 22 October 2009