

MATERIAL SAFETY DATA SHEET

A Product Of: Arrow Paper Corporation
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SECTION I - PRODUCT IDENTIFICATION

Trade Name: PATRIOT NOVEL- QUAT 12111 EPA Reg. No.: 47371-32-

Chemical name / synonyms: Quaternary ammonium compound solution.

Formula: Mixture

D.O.T.: Non hazardous, no UN Number is required

HMIS CODE: Health 1, Fire 0, Reactivity 0

HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	% Composition	TLV
n-alkyl (C14,50%;C12,40%;C16,40%) dimethyl benzyl ammonium chloride CAS# 139-08-2	10-12	NA

SECTION III - PHYSICAL DATA

Boiling Pt (°F): 212 Specific Gravity: 0.98 - 1.00
Vapor Pressure(mm Hg): NA Percent Volatile: 90
Vapor Density (air=1): NA Evaporation Rate (water=1): 1
Solubility in water: complete pH: 7
Appearance and Odor: Water white liquid, faint quat odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): None Flammable limits in air (vol%)
test method: TOC Upper: NA Lower: NA
Extinguishing Media: As necessary for surrounding fire.
Special fire fighting procedures: Wear MSHA/NIOSH approved self breathing apparatus. Cool fire exposed containers with cool water.
Unusual fire and explosion hazard: none

SECTION V - HEALTH HAZARD DATA - ROUTES OF ENTRY

Threshold Limit Value: See Section II
Routes of Entry: skin, inhalation, eye contact, ingestion.
Acute Effects of Exposure: EYES - direct contact can cause severe damage, corrosive. SKIN - irritation, dermatitis, harmful if absorbed through skin. LD50=0.8 ml/kg INHALATION -irritation to mucous membranes. INGESTION -immediate burning in the mouth, throat, abdomen and severe swelling of the larynx skeletal muscle paralysis, affecting the ability to breathe, circulatory shock, convulsions, may be fatal. LD50=0.46 ml/kg
Chronic Effects of Exposure are unknown.

Emergency and first aid procedures: EYES - flush with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention. SKIN - remove contaminated clothing and launder before reuse. Wash skin with soap and water under safety shower. Destroy contaminated shoes. INHALATION - remove person to fresh air. Administer artificial respiration if indicated. Obtain immediate medical assistance. INGESTION - give large quantities of milk, gelatin solution or water. If vomiting occurs, give fluids again. Do not give anything by mouth to a convulsing or unconscious person. Call physician or poison center immediately.

SECTION VI - REACTIVITY DATA

Stability: stable

Hazardous decomposition products: Carbon dioxide, carbon monoxide, ammonia, nitrous oxides, hydrogen chloride

Hazardous polymerization products: Will not occur.

Conditions to avoid: Strong oxidizing such as chlorine or strong reducing agents. Admixtures can be explosive.

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken if material is released or spilled:
Dike and contain. Place in non leaking containers for disposal agency. Keep spills out of sewers or open bodies of water.
Waste disposal method: Open dumping is prohibited. Dispose of in accordance with all federal, state or local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: NA
Ventilation -local exhaust: recommended
-mechanical exhaust: NA
Protective gloves: rubber
Eye protection: chemical goggles if contact is likely.
Other protective equipment: none

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store above 35 °F. Keep container tightly closed when not in use and under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. Do not store near heat or open flames.

Other precautions: KEEP OUT OF REACH OF CHILDREN. Avoid contamination of food or water supplies. Toxic to fish. Triple rinse containers before disposal. Do not reuse empty containers.

NA means NOT APPLICABLE on this form.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described on the label or in the Product Data Sheet is the responsibility of the user.

This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communications Regulation and Massachusetts Right to Know Law.