

MATERIAL SAFETY DATA SHEET

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TRADE NAME: **BlueSeal™**

*** CHEMICAL OR COMMON NAME:

Mixture of Nonylcarbinol and Quaternary Compound

HAZARDOUS COMPONENTS

1. The specific chemical identities of the ingredients are considered to be trade secrets and are withheld in accordance with the provisions of 1910-1200 of Title 29 of the Code of Federal Regulations.
2. Recommended Occupational Exposure limit 50 parts per million (8 hour time weighted average) is based upon the ACGIH recommendation for components of the same chemical family.

PHYSICAL DATA

BOILING PT(Deg F): 400	FREEZE PT(Degrees F): -40
SPECIFIC GRAVITY: 0.84	SOLUBILITY IN WATER: Slightly miscible
APPEARANCE: Blue Liquid	VOLATILES(% by WT.): 98
PERCENT ACTIVE : 100	VAPOR DENSITY(AIR=1): >1
VAPOR PRESSURE(@ 100 Degrees F): 0 mm Hg	ODOR: Characteristic
EVAPORATION RATE(BUTYL ACETATE=1): <0.2	pH: 7 ± 0.5
***< means less than; > means more than	VOC: N/A

***These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (Deg F --PMCC): >200	AUTOIGNITION TEMP (Deg F): No Data
FLAMMABLE LIMITS IN AIR Volume %:	Lower: No Data Upper: No Data
EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CO ₂ , DRY CHEMICAL. Product will float and can re-ignite on surface of water.	
SPECIAL FIREFIGHTING PROCEDURES: Evacuate non-essential people. Firefighters should wear a positive pressure NIOSH approved self-contained breathing apparatus.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers exposed to intense heat from fires should be cooled with water fog to prevent vapor pressure buildup which could result in container rupture.	

NFPA HAZARD RATING

Health (blue): 2	Flammability(red): 1	Reactivity (yellow): 0
Least - 0	Slight - 1	Moderate - 2 High - 3 Extreme -4

HEALTH HAZARD DATA

***It is important to determine whether exposure is to concentrated or dilute product. The information included in this document is intended to deal with exposure to concentrated product. Generally, exposure to diluted product will result in substantially less risk of injury than described herein.

PRINCIPLE ROUTES OF EXPOSURE: Eyes, skin contact, ingestion.

CONTACT WITH EYES: Irritating, and will injure eye tissue if not removed promptly.

CONTACT WITH SKIN: Prolonged or repeated liquid contact may result in drying of the skin, which may result in skin irritation.

SKIN ABSORPTION: No data

INHALATION: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, headache, possible unconsciousness.

INGESTION: Ingestion of product may result in vomiting.

EMERGENCY AND FIRST AID PROCEDURES

EYES: Flush with plenty of water for 15 minutes. Get medical attention.

SKIN: Flush skin with water.

INHALATION: If discomfort is experienced, remove to fresh air. If breathing is difficult, give oxygen and call physician.

INGESTION: DO NOT INDUCE VOMITING. Get medical attention immediately.

TOXICITY DATA**SUSPECTED CANCER AGENT?**

Mixture is not considered a carcinogen by IRAC or NNTP. This mixture is reasonably believed not to contain any toxic chemicals in quantities subject to reporting requirement of SARA (1986, Section 313, Title 111) and 40 CFR 372.

REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: Heat, temperature extremes, flames, ignition sources.

MATERIALS TO AVOID: Strong oxidizers, some plastics, reactive metals, and inorganic acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SPILL OR LEAK PROCEDURES

WARNING: COMBUSTIBLE: Eliminate all ignition sources.

LARGE SPILLS: (Over 55 gallons) Eliminate all ignition sources and evacuate the hazard area of non-essential personnel. Wear appropriate protective clothing and rubber boots. Shut off source of leak if safe to do so. Dike and contain. Pump/vacuum/scoop to non-leaking salvage drum or container for disposal.

SMALL SPILLS: Mop up and rinse area.

WASTE DISPOSAL METHOD: Dispose of wastes in accordance with federal, state and local regulations.

SPECIAL PROTECTION INFORMATION

VENTILATION AND ENGINEERING CONTROLS: In confined areas provide adequate local exhaust ventilation to lower the concentration of mists, vapors, or sprayed material.

RESPIRATORY PROTECTION: For mists and sprayed material use NIOSH approved respirator.

PROTECTIVE GLOVES: Use of gloves will decrease skin dryness and coating of the skin.

EYE PROTECTION: Chemical splash glasses may be used if there is risk of sprayed product coming into contact with eyes.

SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS: CAUTION: **KEEP OUT OF REACH OF CHILDREN**

Do not get in eyes, on skin or on clothing. Do not take internally. Avoid breathing vapors.

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