

Vinyl acetate

CHEMICAL INFORMATION SHEET**(Tentative)**

The Chemical Section is developing a number of chemical information sheets on a large number of substances. This information is made available for your examination and comments. In order that your suggested changes may be incorporated in a final draft, please send them to John Mark, National Safety Council, 425 N. Michigan Ave., Chicago, Ill. 60611.

CHEMICAL: Vinyl Acetate**OTHER NAMES:** Ethenyl Ethanoate**USES:** In polymerized form for plastic masses, films and lacquers.**PROPERTIES****Color:** Colorless liquid, polymerizes to solid on exposure to light.**Odor:** Slight**Formula:** $\text{CH}_3\text{CH}_2\text{COOCH}_3$ **Molecular Weight:** 86.05**Density:** .9335 @ 20°C**Melting Point:** -93°C**Boiling Point:** 72°C (161°F)**Water Solubility:** Slight**Flash Point:** 18°F**Autoignition Temperature:** 800°F**Flammable Limits (Explosive):** Lel: 2.6%, Uel: 13.4%**Vapor Density (Air = 1):** 3.0**Threshold Limit Value:** 10 ppm; 30 mg. per cu. meter of air

under fire conditions, polymerization may take place with the violent rupturing of containers.

Health: Vapor will irritate the eyes.**PRECAUTIONS****Normal Handling Precautions (Including Protective Equipment & Special Procedures):** Acts as defatting agent, skin should be protected.**Special Precautions for Emergencies (Including Personal Protective Equipment, Evacuation, Emergency Equipment, Spill Clean-Up, Extinguishment, Etc.):** Dangerous when heated to decomposition. It burns and emits acrid fumes, can react with oxidizing materials.**Special First Aid Measures:** Eyes – immediately flush at least 15 minutes with plenty of water – refer to physician. Skin – immediately flush with plenty of water for at least 15 minutes – wash clothing before using.**Fire Extinguishing Agents Recommended:** Water spray, carbon dioxide, dry chemical or alcohol foam.**Fire Extinguishing Agents to Avoid:** none**MISCELLANEOUS PROPERTIES OR INFORMATION**

Avoid contact with peroxides

References:

SAX, 3rd Edition

MERCK, 7th Edition

MCA Chemical Data Sheet SD-75 (1959)

NFPA 325M (1969); NFPA 49 (1972); NFPA 491M (1971)

THRESHOLD LIMIT VALUES, ACGIH (1972)

LABELS**D.O.T. Classification & Label:** Flammable liquid, red label, 10 gals.**N.F.P.A. Label—Health, Flammability, and Reactivity**

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M.C.A. Precautionary Label: Vinyl Acetate. Danger, extremely flammable, may polymerize violently under fire conditions or loss or removal of inhibitor, causes skin irritation. Keep away from heat, sparks, and open flame. Keep container closed – use adequate ventilation, avoid prolonged or repeated breathing of vapor or contact with skin – drum should be grounded when being emptied. In case of contact, flush skin with water, wash clothing before using.**HAZARDS****Fire & Explosion:** Vinyl acetate in contact with peroxides may polymerize violently. At elevated temperatures such as

URL 14751

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