MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFY

Name: ODV, Inc.
Address: P.O. Box 180, 9 Swallow Road, S. Paris, ME 04281
Telephone Number: 207-743-7712
For Additional Information Contact: Larry Dow
Date Prepared: May 1, 1993

Common name (used on Label): 902 or 7602 Marquis Reagent
Trade name & Synonyme: NarcoPouch® & Narcotest®
Chemical Family: Does Not Apply
Chemical Name: Does Not Apply
Formula: Does Not Apply

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT | CAS # | % (wt) | TLV | PEL
--- | --- | --- | --- | ---
Sulfuric Acid concentrated ACS grade | 7664-93-9 | 96 | 1 mg/m³/10 hr. | 1 mg/m³
Formaldehyde (approx) 37% ACS grade | 50-00-0 | 4 | 1.5 mg/m³ | 1.5 mg/m³

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration
TLV: Threshold limit Value established by the American Conference of Governmental Industrial Hygienists, 1987-88.

SECTION 3 – PHYSICAL DATA

BOILING POINT: not determined
SPECIFIC GRAVITY (H₂O = 1): 1.56-1.84
VAPOR PRESSURE (mm Hg): Low
PERCENT VOLATILE BY VOLUME: not determined
VAPOR DENSITY (AIR = 1): 3.40
EVAPORATION RATE: not determined
SOLUBILITY IN WATER: Complete
REACTIVITY IN WATER: Reacts violently when water is added with evolution of heat.
APPEARANCE AND ODOR: Clear and Colorless and Odorless

SECTION 4 – FIRE AND EXPLOSION DATA

FLASH POINT: not determined
FLAMMABLE LIMITS IN AIR (% By Volume): LOWER: not determined, UPPER: not determined
EXTINGUISHING MEDIA: suitable dry chemical
AUTO IGNITION TEMPERATURE: not determined
UNUSUAL FIRE AND EXPLOSION HAZARDS: Reacts violently when water is added or with organic materials with evolution of heat.
SPECIAL FIRE FIGHTING PROCEDURES: Do not use water to put out fire if the water can get into concentrated sulfuric acid. Use proper respiratory protection against fumes.
SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE  inhalation, contact with eyes or skin.

SIGNS AND SYMPTOMS OF EXPOSURE  Irritation of eyes, nose and throat. Splashes in the eyes or on the skin will cause severe skin burns.

(1) ACUTE OVEREXPOSURE -  Repeated or prolonged exposure to dilute solutions of sulfuric acid may cause irritation of the skin.
chronic irritation of the eyes, or chronic inflammation of the nose, throat, and bronchial tubes.

(2) CHRONIC OVEREXPOSURE -  Repeated or prolonged exposure to mists or vapors of sulfuric acid may cause erosion of teeth,
chronic irritation of the eyes, or chronic inflammation of the nose, throat, and bronchial tubes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE  Impaired pulmonary function, pre-existing eye problems, pre-existing skin disorders.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

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<tr>
<th>NTP</th>
<th>IARC</th>
<th>OSHA</th>
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<tr>
<td><img src="NTP" alt="Yes" /> No</td>
<td><img src="IARC" alt="Yes" /> No</td>
<td><img src="OSHA" alt="Yes" /> No</td>
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OTHER EXPOSURE LIMITS  None.

EMERGENCY & FIRST AID PROCEDURES  In the case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. If swallowed, do not give emetics. If conscious, give tap water, milk, or milk of magnesia. Call a physician.

SECTION 6 - REACTIVITY DATA

STABILITY  Unstable [ ] Stable [ ]

CONDITIONS TO AVOID  Avoid adding water to the acid, large amounts of heat is produced.

INCOMPATIBILITY (MATERIALS TO AVOID)  Avoid contact of acid with organic materials (such as chlorates, carbides, fulminates, and picrates) may cause fires and explosions. Contact of acid with metals may form toxic sulfur dioxide fumes and flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS  Heat, sulfur dioxide, hydrogen.

HAZARDOUS POLYMERIZATION  May occur [ ] Will not occur [ ]

CONDITIONS TO AVOID  Not applicable to polymerization.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED  Avoid adding water to the acid, large amounts of heat is produced.

WASTE DISPOSAL METHOD  Dispose of wastes in accordance with Federal, State and Local codes. Normal disposal includes neutralization and absorption in vermiculite, dry sand, earth, or similar material.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION  Respiratory protection is not required under normal and intended uses. Self contained breathing apparatus required during fire fighting and spill clean-up.

VENTILATION  Room ventilation is expected to be adequate except during spills or fires.

PROTECTIVE GLOVES  Required when contact with sulfuric acid exists. EYE PROTECTION  Required when possibility of contact with sulfuric acid exists.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT  An eye wash fountain and safety shower should be readily available where contact with sulfuric acid exists.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  Store and handle according to packaged instructions. Store in a cool well ventilated area. Keep away from reactive materials.

OTHER PRECAUTIONS  Do not get in eyes, on skin, or on clothing. Avoid breathing vapor. Wash thoroughly after handling. Be prepared to neutralize.

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. ODV, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.