MATERIAL SAFETY DATA SHEET

PRODUCT

906 & 7606 Mandelin Reagent

INTEGRATED

P.O. BOX 180
SOUTH PARIS, MAINE 04281 USA

SECTION 1 - IDENTITY

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): 306 or 7606 Mandelin Reagent

Trade name & Synonyms: NarcoPouch® & Narcotest®

Chemical Family: Does Not Apply

Chemical Name: Does Not Apply

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT

Sulfuric Acid concentrated ACS grade
Ammonium (meta) vanadate

CAS #: 7664-93-9  7603-55-6

% (wt): 99  0.7

TLV: 1 mg/m³/10 hr.  not determined

PEL: 1 mg/m³  0.05 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): 1.58-1.84

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: Yellow liquid 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. Ammonium (meta) vanadate emits toxic fumes under fire conditions.

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
(1) ACUTE OVEREXPOSURE -
Irritation of eyes, nose and throat. Splashes in the eyes or on the skin will cause severe skin burns.

(2) CHRONIC OVEREXPOSURE -
Repeated or prolonged exposure to dilute solutions of sulfuric acid may cause irritation of the skin. Repeated or prolonged exposure to mist 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/PARTICLE 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>☐ 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, ammonia

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.