

Mandelin Reagent, 906 & 7606

COPY

MATERIAL SAFETY DATA SHEET

PRODUCT

906 & 7606 Mandelin Reagent



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) 906 or 7606 Mandelin Reagent			
Trade name & Synonyms 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	99	1 mg/m ³ /10 hr.	1 mg/m ³
Ammonium (meta) vanadate	7803-55-6	0.7	not determined	0.05 mg/m ³

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 (H ₂ O = 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 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	Irritation of eyes, nose and throat. Splashes in the eyes or on the skin will cause severe skin burns.
(1) ACUTE OVEREXPOSURE -	
(2) CHRONIC OVEREXPOSURE -	Repeated or prolonged exposure to dilute solutions of sulfuric acid may cause irritation of the skin. 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	NTP <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No IARC <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No OSHA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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 <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	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 <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>	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.	