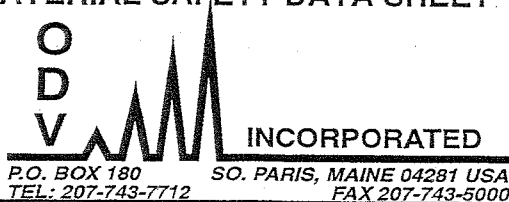


MATERIAL SAFETY DATA SHEET

COPY

PRODUCT

909/7609
KN 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) 909/7609 KN 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
Trichloroethylene: 1st ampoule	79-01-6	>99	200 mg/m ³	264 mg/m ³
Fast Blue B salt: 1st ampoule	14263-94-6	0.3%	No TVL	No PEL
Sodium Hydroxide aqueous sol.: 2nd ampoule (cap)	1310-73-2	10%	2 mg/m ³	2 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 87° C (Trichloroethylene)	SPECIFIC GRAVITY (H ₂ O = 1) 2.13 (NaOH) 1.45 (Trichloro.)	VAPOR PRESSURE (mm Hg) NA (NaOH) 100 @ 32°C (Trichloroethylene)
PERCENT VOLATILE BY VOLUME 100% (Trichloroethylene)	VAPOR DENSITY (AIR = 1) 4.53 (Trichloroethylene)	EVAPORATION RATE less than 1 (Trichloroethylene)
SOLUBILITY IN WATER 100% (NaOH), 0.1% (Trichloroethylene)	REACTIVITY IN WATER None	
APPEARANCE AND ODOR Yellow to greenish particles in clear liquid 1st ampoule (Trichloroethylene + fast Blue B), colorless liquid NaOH 2nd ampoule.		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT NA	FLAMMABLE LIMITS IN AIR (% By Volume) LOWER: 90% UPPER: 12.5
EXTINGUISHING MEDIA CO₂ dry chemical	AUTO IGNITION TEMPERATURE 410° C (Trichloroethylene)
UNUSUAL FIRE AND EXPLOSION HAZARDS When heated to decomposition, trichloroethylene emits toxic fumes of chlorides.	

SPECIAL FIRE FIGHTING PROCEDURES Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE Inhalation, Contact with eyes or skin, ingestion.

SIGNS AND SYMPTOMS OF EXPOSURE Irritation of eyes, nose and throat. Splashes in the eyes or on the skin of caustics will cause severe skin burns. Inhalation of vapors may irritate mucous membranes and respiratory tract.

(1) **ACUTE OVEREXPOSURE** -

(2) **CHRONIC OVEREXPOSURE** - Repeated or prolonged exposure to dilute solutions of base may cause irritation of the skin.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Impaired pulmonary function, pre-existing eye problems, pre-existing skin disorders may be aggravated by exposure.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN
Fast Blue B Salt (uncertain no studies done)

NTP

Yes No

IARC

Yes No

OSHA

Yes No

OTHER EXPOSURE LIMITS Not known

EMERGENCY & FIRST AID PROCEDURES

If Trichloroethylene is swallowed, if conscious, induce vomiting and repeat until fluid is clear. In cases of eye contact (any component), flush with water at least 15 minutes. For skin contact, flood with tap water. Call a physician. If 10% NaOH is swallowed dilute with several glasses of water or milk and induce vomiting.

SECTION 6 - REACTIVITY DATA

STABILITY

Unstable Stable

CONDITIONS TO AVOID

May burn but does not ignite readily (trichloroethylene).

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizers NaOH.

HAZARDOUS DECOMPOSITION PRODUCTS

Trichloroethylene may decompose to toxic fumes of phosgene in contact with certain metals or high temperatures.

HAZARDOUS POLYMERIZATION

May occur Will not occur

CONDITIONS TO AVOID

Avoid contact with powdered metals or very strong alkali with trichloroethylene.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Minor spill: cover with vermiculite to absorb. Add water if necessary to form slurry. Trichloroethylene: eliminate all sources of ignition.

WASTE DISPOSAL METHOD

Dispose of wastes in accordance with Federal, State, and Local codes.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Respiratory protection is not required under normal uses (non fire and spill conditions).

VENTILATION

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

PROTECTIVE GLOVES

Required when the potential of contact exists.

EYE PROTECTION

Required when the potential of contact exists.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

An eye wash fountain and safety shower should be readily available where the potential for eye contact with the reagent exists.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store and handle according to packaged instructions. Store in cool, well ventilated area. Keep away from reactive materials and away from fire hazard.

OTHER PRECAUTIONS

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

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.