

MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION AND USE

MANUFACTURER'S NAME: Diagnostic Chemicals Limited
16 McCarville St
West Royalty Industrial Park
Charlottetown, P.E.I.
Canada C1E-2A6
902-566-1396

CHEMICAL/PRODUCT NAME: **Salicylate Assay Kit (Enzymatic)**

CATALOGUE NUMBER: **501-71**

NOTE: Physical and health hazard information on reagent mixtures have not been determined. Any physical and health information noted is based 1) on evaluation of data for the pure ingredients, and 2) concentration of ingredients as packaged.

PRODUCT DESCRIPTION: For the quantitative determination of salicylate.

II HAZARDOUS INGREDIENTS (NE not established)

	<u>ACGIH TLV</u>	<u>CAS</u>
NADH Reagent: Sodium Azide 12.5 % (0.025% after recon.)	0.11 Ceiling	26628-22-8
Enzyme Reagent: EDTA 33%, (2.2% after recon.)	NE	139-33-3
Sodium Azide 9%, (0.6% after recon.)	0.11 Ceiling	26628-22-8
Standard: n.ap.		

III TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY/EXPOSURE

SKIN CONTACT: [x] EYE CONTACT: [x] INHALATION: [x]
INGESTION: [x] SKIN ABSORPTION [x]

EFFECTS OF ACUTE EXPOSURE:

SKIN CONTACT: Contact with NADH Reagent and Enzyme reagent is likely to cause severe irritation and or burns, and may be absorbed in toxic amounts.

EYE CONTACT: Causes irritation, may cause burns.

INGESTION: Toxic, harmful if swallowed.

INHALATION: Harmful if inhaled, causes irritation to mucous membranes and upper respiratory tract.

EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated exposure to the **enzyme reagent** may cause an allergic reaction in certain sensitive individuals.

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: **Sodium azide** has been reported to cause mutations in bacteria and barley seeds.

SENSITIZATION TO PRODUCT: n.av.

SYNERGISTIC PRODUCTS: n.av.

LD50: Sodium Azide 27 mg/kg oral rat, 20 mg/kg dermal rabbit.

LD50: EDTA > 2000 mg/kg oral rat.

IV EMERGENCY AND FIRST AID MEASURES

SKIN: In case of contact, immediately flush area with plenty of water.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

ORAL: If ingested drink plenty of fluids and contact a physician.

INHALATION: If inhaled remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen, and call a physician.

V PHYSICAL DATA

PHYSICAL STATE: Standard is a liquid, Enzyme Reagent and the NADH Reagent are solids.

APPEARANCE AND ODOUR: Standard is clear and colourless. The Enzyme Reagent and the NADH Reagent are off white lyophilized powders.

ODOUR THRESHOLD: n.av.

VAPOUR PRESSURE: n.av.

VAPOUR DENSITY: n.av.

SPECIFIC GRAVITY: n.av.

EVAPORATION RATE: n.av.

MELTING POINT: n.av.

BOILING POINT: n.av.

SOLUBILITY IN WATER: Soluble

pH: = NADH Reagent: 11, Enzyme Reagent: 7.6, Standard: n.av.

COEFFICIENT OF OIL/WATER DISTRIBUTION: n.av.

VI FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE: No

EXTINGUISHING MEDIA: As appropriate for fire in surrounding materials

FLASH POINT: n.ap.

UPPER FLAMMABLE LIMIT: n.ap.

LOWER FLAMMABLE LIMIT: n.ap.

AUTOIGNITION TEMPERATURE: n.ap.

HAZARDOUS COMBUSTION PRODUCTS: n.av.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: n.ap.

SENSITIVITY TO STATIC DISCHARGE: n.ap.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Discharge of large amounts of reagents and waste solutions containing **sodium azide** to lead or copper sewerage drains could promote the build up of potentially explosive metal azides.

VII REACTIVITY DATA

STABLE: Yes

HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY WITH OTHER SUBSTANCES: Strong acids, heavy metals.

HAZARDOUS DECOMPOSITION PRODUCTS: n.av.

VIII PREVENTIVE MEASURES

LOCAL EXHAUST: Not required
PROTECTIVE CLOTHING: Lab coat
PROTECTIVE GLOVES: Rubber
EYE PROTECTION: Safety glasses

OTHER PRECAUTIONS: Avoid contact and inhalation, do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing before reuse.

RESPIRATORY PROTECTION: Respirator recommended.

LEAK AND SPILL PROCEDURE: Absorb small leaks or spills with sponge, mop up large spills with plenty of soap and water.

WASTE DISPOSAL: Dilute with a large volume of water and dispose of into sewer system, in accordance with local regulations.

STORAGE REQUIREMENTS: Refrigerate @ 2-8 °C.

SHIPPING INFORMATION: Not regulated.

IX PREPARATION OF THE M.S.D.S.

PREPARED BY: Denise Bustard
PHONE NO: 902-566-1396
DATE: 16 February 2001

** n.av. not available n.ap. not applicable*

The information provided on this Material Safety Data Sheet is provided in the interest of promoting safe handling of the material. While this information is believed to be correct DCL makes no warranty in respect to any of the information disclosed. Observe all federal, provincial, state and local laws concerning health and pollution.

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