



Curtin Matheson Scientific, Inc.
1225 N MICHAEL DRIVE

WOOD DALE, IL 60191-1019

FISONS

MATERIAL SAFETY DATA SHEET

MAIL TO: MICHIGAN STATE UNIV
GENERAL STORES BLDG #1
PO#46231
133 W SERVICE DR
EAST LANSING, MI 48824

SECTION 1 - NAME AND PRODUCT

MANUFACTURER NAME AND ADDRESS
DIFCO LABORATORIES
P O BOX 331058

DETROIT MI 48232
EMERGENCY PHONE (313) 961-0800

COMMON NAME (ON LABEL)
SPOTTEST TM VOGES-PROSKAUER REAGENT A

TRADE NAME & SYNONYMS

CHEMICAL NUMBER: D3558-260
ITEM NUMBER: 0748306
VNDR CATLG NBR:
ENTRY DATE: 12-01-89
CHANGE DATE: 01-02-91

CHEMICAL FAMILY
NOT GIVEN

CHEMICAL FORMULA
NOT GIVEN

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS	% (WT)	TLV	PEL
ETHANOL (FLAMMABLE)	64-17-5	95.00	1000.000 PPM	NOT GIVEN
1-NAPHTHOL	90-15-3	5.00	.000 N/E	NOT GIVEN

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).
TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1986-87.

OTHER INGREDIENT INFORMATION

1-NAPHTHOL - 275MG/KG (OR-MOUSE); (CAS #90-15-3) 5%;
TLV: N/E. ETHANOL (FLAMMABLE) - 3450MG/KG
(OR-MOUSE); (CAS #64-17-5) 95%; TLV: 1000PPM.
N/E = NOT ESTABLISHED

SECTION 3 - PHYSICAL DATA

BOILING POINT N/A	VOLATILE BY VOLUME (%) 95%	VAPOR PRESSURE N/A
MELTING POINT N/A	VAPOR DENSITY N/A	SOLUBILITY IN WATER COMPLETE
EVAPORATION RATE (= 1) N/A	SPECIFIC GRAVITY N/A	

APPEARANCE AND ODOR
YELLOW,CLEAR LIQUID WITH ODORS OF NAPHTHOL AND ETHANOL

OTHER PHYSICAL DATA

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT

50 DEG. F (CC)

LOWER EXPLOSIVE LIMIT

2.8

UPPER EXPLOSIVE LIMIT

18

EXTINGUISHING MEDIA

WATER, ALCOHOL FOAM, DRY CHEMICAL, CO2.

UNUSUAL FIRE AND EXPLOSION HAZARDS

N/A

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS.

SECTION 5 - HEALTH HAZARD DATA

HEALTH HAZARDS (ACUTE & CHRONIC)

CONTACT WITH SKIN AND EYES MAY CAUSE IRRITATION AND BLISTERS.

PRIMARY ROUTES OF EXPOSURE

CONTACT.

SIGNS AND SYMPTOMS OF EXPOSURE

CONTACT WITH SKIN AND EYES MAY CAUSE IRRITATION OR BLISTERS.

PERMISSIBLE EXPOSURE LIMIT: N/A.

SECTION 5 - HEALTH HAZARD DATA (CONTINUED)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
NONE INDICATED.

CARCINOGENICITY

NTP Yes No IARC Yes No OSHA Yes No

N/A

EMERGENCY AND FIRST AID PROCEDURES

IMMEDIATELY FLUSH EYES AND SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

THRESHOLD LIMITS / TOXICITY DATA

1053 PPM FOR SPOTTEST VOGES-PROSKAUER REAGENT A BASED ON ETHANOL CONTENT.

SECTION 6 - REACTIVITY DATA

STABILITY Unstable Stable

CONDITIONS TO AVOID

KEEP AWAY FROM HEAT AND IGNITION SOURCES.

INCOMPATIBILITY (MATERIALS TO AVOID)

OXIDIZING MATERIALS. DO NOT USE WITH ALUMINUM OR COPPER AND ITS ALLOYS.

SECTION 6 - REACTIVITY DATA (CONTINUED)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CO₂

HAZARDOUS POLYMERIZATION May Occur Will Not Occur
CONDITIONS TO AVOID

N/A

SECTION 7 - SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

USE RUBBER GLOVES-IF DESIRED. WIPE UP SPILL WITH A DAMP SPONGE, RINSE DOWN DRAIN WITH PLENTY OF WATER. LARGE SPILLS, ELIMINATE ALL IGNITION SOURCES. WHILE WEARING PROTECTIVE EQUIPMENT, SOAK UP THE BULK OF THE MATERIAL AND HOLD FOR WASTE DISPOSAL. HANDLE THE REMAINDER AS A SMALL SPILL.

WASTE DISPOSAL METHOD

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RESPIRATOR FOR LARGE SPILLS ONLY.

LOCAL VENTILATION

N/A

MECHANICAL VENTILATION

N/A

SPECIAL VENTILATION

NOT GIVEN

SECTION 8 - SPECIAL PROTECTION INFORMATION (CONTINUED)

OTHER VENTILATION

PROTECTIVE GLOVES

RUBBER GLOVES-PREFERRED

EYE PROTECTION

SAFETY GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

N/A

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

STORE AWAY FROM OXIDIZERS AND IGNITION SOURCES. USE IN ADEQUATE VENTILATION. KEEP CONTAINER CLOSED.

SECTION 10 - OTHER INFORMATION

MISCELLANEOUS INFO.