

Vacutainer Brand Tubes
 6386, 6387, 6480, 6481, 6483

B2984-51, -52, -54, -60A, -61A
 B2950-10, B2951-30, -31, -32, -33

CCAR
 CCOA

**BECTON
 DICKINSON**

Becton Dickinson and Company

**Material Safety
 Data Sheet**

SECTION 1 - IDENTITY

NAME Becton Dickinson VACUTAINER Systems		ADDRESS Stanley Street, E. Rutherford, NJ 07073		
TELEPHONE NUMBER (201) 460-2615	FOR ADDITIONAL INFORMATION CONTACT: Fu-chung Lin Ph. D.		DATE PREPARED November 13, 1988	
COMMON NAME (USED ON LABEL) VACUTAINER Brand Tubes 6386, 6387, 6480, 6481, 6483		CHEMICAL FAMILY Does not apply		
CHEMICAL NAME Does not apply		FORMULA		
TRADE NAME & SYNONYMS VACUTAINER Brand Plasma Tubes with Heparin. VACUTAINER, trademark of the Becton Dickinson and Company		Does not apply		

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS #	% (wt)	TLV	PEL
Sodium Heparin	9041-08-1	100	No TLV	No PEL

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, 1987-88.

SECTION 3 - PHYSICAL DATA

BOILING POINT Not determined	SPECIFIC GRAVITY (H₂O=1) Not determined	VAPOR PRESSURE (mm Hg) Not determined
PERCENT VOLATILE BY VOLUME (%) Not determined	VAPOR DENSITY (AIR=1) Not determined	EVAPORATION RATE (_____ =1) Not determined
SOLUBILITY IN WATER Soluble	REACTIVITY IN WATER Not determined	

White powder; No characteristic odor, if any.

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT Not determined	FLAMMABLE LIMITS IN AIR (% by VOLUME) LOWER: Not determined UPPER: Not determined	
EXTINGUISHING MEDIA Use extinguishing media appropriate for surrounding fire.	AUTO IGNITION TEMPERATURE Not determined	
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined		
SPECIAL FIRE FIGHTING PROCEDURES None		

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SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE

Eyes, skin, subcutaneous injection, inhalation, ingestion.

SIGNS AND SYMPTOMS OF EXPOSURE Local irritation, erythema, mild pain, hematoma, ulceration may follow deep subcutaneous injection. Ingestion can cause gastrointestinal irritation; nausea, vomiting, diarrhea.

(1) **ACUTE OVEREXPOSURE** -

Nosebleeds, blood in urine, or tarry stools may be noted as the first sign of bleeding.

(2) **CHRONIC OVEREXPOSURE** -

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Hypertension, conditions associated with increased bleeding tendencies, menstruation, liver disease with impaired hemostasis

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP

Yes No

IARC

Yes No

OSHA

Yes No

OTHER EXPOSURE LIMITS None

EMERGENCY & FIRST AID PROCEDURES

EYE and SKIN contact--wash with large amounts of water; get medical attention. **SUBCUTANEOUS INJECTION**--contact a physician immediately; neutralize heparin effect. **INHALED**--move to fresh air. **INGESTED**--give two glasses of water, induce vomiting, call a physician.

SECTION 6 - REACTIVITY DATA

STABILITY

Unstable Stable

CONDITIONS TO AVOID Not determined

INCOMPATIBILITY (MATERIALS TO AVOID)

Not determined

HAZARDOUS DECOMPOSITION PRODUCTS

Not determined

HAZARDOUS POLYMERIZATION

May Occur Will Not Occur

CONDITIONS TO AVOID

Not determined

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Flush with water

WASTE DISPOSAL METHOD

Dispose of waste in accordance with Federal, State and local codes, normally small volumes can be disposed into a sewer system.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION Not required under normal and intended uses.

VENTILATION

General room ventilation

PROTECTIVE GLOVES

Not required, may be used if contact becomes probable.

EYE PROTECTION

Not required, should be used when the potential of eye contact is present.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Emergency eye bath is recommended where there is a possibility of eye contact.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Store and handle according to packaged instructions.

OTHER PRECAUTIONS

Because heparin is a mixture of active principles having the property of prolonging clotting time of blood, it is necessary to prevent inhalation.

THE INFORMATION CONTAINED WITHIN WAS OBTAINED FROM AUTHORITATIVE SOURCES AND IS BELIEVED TO BE ACCURATE FOR THE MANNER IN WHICH THE PRODUCT IS INTENDED TO BE USED. OTHER USES COULD RESULT IN CONSEQUENCES WHICH ARE NOT CONSIDERED WITHIN THIS DOCUMENT.