

Material Safety Data Sheet

Product Name: TUD brand Vacuum Blood Collection Tube with Clot activator and silicone coated interior.

1 Ia	lentification of substance:
	Product Name: TUD brand Vacuum Blood Collection Tube with Clot activator and silicone coated interio
	Catalog Numbers: 137520006,137530006,137540006,131050006,131060006,161070006,161080006,
	Manufacturer/Supplier:
TUL	O Sdn Bhd
49-1	Jalan Temenggung 9/9,Bandar Mahkota Cheras,43200 Cheras,Selangor,Malaysia.
	Information Department:
TUL	Sdn Bhd, Customer Service +03-9019 0331
2 C	omposition/Data on components:
	Description:
Chei	mical name: Silica
	CAS No.: 14808-60-7
	Quantity of substances: $0.15 - 2mg(TUD)$
	Exposure limits: 0.1 mg/m ³ (ACGIH)
OSH	IA PEL: Crystalline Quartz (respirable): TWA 250 mppcf/(%SiO² +5); TWA 10 mg/m³/(%SiO² + 2)
Qua	rtz (total dust): TWA 30 mg/m 3 /(%SiO 2 + 2)
3 H	azards identification:
	Hazard description: Silica dust particles may cause slight eye irritation. Inhalation of large amounts of silica dust
caus	es acute pneumoconiosis, characterized by coughing and throat irritation. Repeated inhalation of silica dust may
caus	e silicosis, a delayed (chronic) lung disease characterized by a severe fibrous scarring of the lung. Silicosis may be
prog	ressive and result in heart failure. Silicosis increases the risk of tuberculosis, and may lead to chronic kidney
dised	ase and end-stage renal disease. Silica is classified as carcinogenic to humans. Avoid inhalation of dusts. Avoid
gene	eration and accumulation of dusts.
	Acute Exposure Effects: May cause slight eye irritation (mechanical irritation from particles). Acute
рпеи	umoconiosis from overwhelming inhalation exposure to silica dust has occurred. Coughing and irritation of throat
are e	early symptoms.
	Repeated Exposure Effects: Repeated inhalation exposure to silica dust may cause silicosis, a delayed (chronic)
lung	disease characterized by a severe fibrous scarring of the lung. Silicosis may be progressive and result in heart
failu	re. Silicosis increases the risk of tuberculosis, and may lead to chronic kidney disease and end-stage renal disease.
Silic	a is classified as carcinogenic to humans.
	Medical Conditions Which Might be Aggravated. Pre-existing lung disease



□ NFPA ratings (scale 0-4):
Health = 3
Flammability = 0
Reactivity = 0
Special = 0
☐ HMIS ratings (scale 0-4):
Health = 3
Fire = 0
Reactivity = 0
$Specific\ Hazard=0$
4 First aid measures:
General information: No special measures required
After inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Consult a physician.
After skin contact: Immediately wash with water and soap, and rinse thoroughly
After eye contact: Rinse opened eye for 15 minutes under running water. Then consult a doctor.
After Swallowing: If large amounts are swallowed, get immediate medical attention.
Information for doctor: Show this label
5 Fire fighting measures:
☐ Suitable extinguishing agents: Use media suitable for surrounding fire.
☐ Protective equipment: Wear self-contained NIOSH approved breathing apparatus and protective clothing to
prevent contact with skin and eyes.
6 Accidental release measures:
☐ Person-related safety precautions: Avoid overexposure. Wear protective equipment, especially NIOSH approved
respirator. Exposure limits: 0.1 mg/m³ (ACGIH)
OSHA PEL: Crystalline Quartz (respirable): TWA 250 mppcf/(%SiO ² +5); TWA 10 mg/m³/(%SiO ² + 2)
Quartz (total dust): TWA 30 mg/m 3 /($^{\circ}$ SiO 2 + 2)
☐ Measures for environmental protection: N/A
☐ Measures for cleaning/collecting: Do not dry-sweep. Whenever possible wet down to minimize airborne dust.
Place in an appropriate disposal container.
Additional information: N/A

Last Updated: 1/3/2010



7 Handling and storage:
☐ Handling:
Information for safe handling: Do not breathe dust. Avoid dust generation or accumulation. Use adequate ventilation
and dust collection. Monitor to keep airborne dust concentrations below the PEL, as silica dust may be in the air
without a visible dust cloud.
Information about protection against explosions and fires: N/A
□ Storage:
Requirements to be met by storerooms and receptacles: Use suitable containers. Keep tightly closed when not in use.
Information about storage in one common storage facility: Avoid strong oxidizing agents.
Further information about storage conditions: N/A
8 Exposure controls and personal protection:
☐ Additional information about design of technical systems: Use sufficient local exhaust to reduce the level
of respirable silica dust to below the PEL.
Components with limit values that require monitoring at the workplace:
Exposure limits: 0.1 mg/m³ (ACGIH)
OSHA PEL: Crystalline Quartz (respirable): TWA 250 mppcf/(%SiO ² +5); TWA 10 mg/m³/(%SiO ² + 2)
Quartz (total dust): TWA 30 mg/m 3 /(%SiO 2 + 2)
Additional information: The lists that were valid during the creation were used as basis.
☐ Personal Protective Equipment:
General protective hygiene measures: Wash thoroughly after handling. Remove contaminated clothing and wash
before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation
Breathing equipment: NIOSH/MSHA Approved respirator
Protection of hands: Use compatible chemical - resistant gloves
Eye protection: Use chemical safety goggles
Body protection: Wear appropriate protective clothing to prevent skin exposure.
09 Physical and chemical properties:
☐ General Information:
Form: Solid (Powder)
Color: White
Odor: Odorless
☐ Change in condition:
Melting point/Melting range: Not available



Boi	ling point/Boiling range: Not available	
	Flash point: N/A	
	Flammability (solid, gaseous): N/A	
	Danger of explosion: N/A	
	Vapor pressure: N/A	
	Density: N/A	
	Solubility in/Miscibility w/H2O: Not available	
	pH-value: Not available	
Org	vanic solvents: Not available	
	Solids content: Not available	
<i>10</i> .	Stability and reactivity:	
	Thermal decomposition / conditions to be avoided: None identified	
	Materials to be avoided: Strong oxidizing agents	
	Dangerous reactions: Stable	
	Dangerous products of decomposition: Silica will dissolve in hydrofluoric acid and produce a corrosive gas	
(sili	con tetrafluoride)	
11	Toxicological information:	
	Acute toxicity:	
Eye	: May cause slight eye irritation	
Skir	n: None identified	
Inho	alation: Acute pneumoconiosis from overwhelming exposure to silica dust has occurred. Coughing and irritation of	
thro	pat are early symptoms.	
Inge	estion: None identified	
	Primary irritant effect:	
On	the skin: Not established	
On the eye: Not established		
	Sensitization: Not established	
	Additional toxicological information:	
Chr	conic: Exposure to silica dust may cause silicosis, a delayed (chronic) lung disease characterized by a severe fibrous	
scar	rring of the lung. Silicosis may be progressive and result in heart failure. Silicosis increases the risk of tuberculosis,	
and	may lead to chronic kidney disease and end-stage renal disease.	
The	re is evidence that respirable crystalline silica or the disease silicosis is associated with the increased incidence of	
aute	oimmune disorders such as scleroderma, systemic lupus, erythematosus and rheumatoid arthritis	
Car	cinogenicity: Silica is classified by IARC and NTP as carcinogenic to humans	
<i>12</i> .	Ecological information:	
	Ecotoxicological effects: No data is available on the adverse effects of this material on the environment.	
Nei	ther COD nor BOD data are available.	
	Other information: N/A	
	General notes: N/A	

Last Updated: 1/3/2010



<i>13</i> .	Disposal considerations:
	Product:
Rec	ommendation
Disp	posal should be done in accordance with local, state and federal regulations.
Disp	posal must be made according to the regulations found in 40 CFR 261.
This	s product is not a RCRA hazardous waste.
	Uncleaned packagings:
Rec	ommendation
Disp	posal should be done in accordance with local, state and federal regulations.
Rec	ommended cleansing agent
Wat	er, if necessary with cleansing agents
14	Transport information:
	DOT regulations: Not regulated
	Land transport ADR/RID (cross-border): N/A
	Maritime transport IMDG: Not regulated
	Air transport ICAO-TI and IATA-DGR: Not regulated
<i>15</i> .	Regulations:
	SARA Section 355 (extremely hazardous substances): Substance not listed
	Section 313 (specific toxic chemical listings): None
	TSCA (Toxic Substances Control Act) Inventory: Yes
	Carncinogenicity categories
IAR	C (International Agency for Research on Cancer): Group 1 (Human carcinogen)
NTI	P (National Toxicology Program): respirable crystalline silica classified as a known human carcinogen
TLV	(Threshold Limit Value established by ACGIH): 0.1 mg/m ³
MA.	K (German Maximum Workplace Concentration): Not available
	Product related hazard information: Minimize dust generation or accumulation
	National regulations: N/A
	Water hazard class: N/A
<i>16</i> (Other information:
To ti	he best of our knowledge, the information contained herein is accurate. However, TUD does not assume any
liab	ilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of
suite	ability of any material is the sole responsibility of the user. All materials may present unknown hazards and shoula
be u	sed with caution. Although certain hazards are described herein, we cannot guarantee that these are the only
haza	ards that exist.
	Department issuing MSDS: Regulatory Affairs