



Material Safety Data Sheet

in compliance with 29 CFR 1900.1200 (OSHA)

VACUETTE[®] Serum and Serum Gel Tubes

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Substance Specifications

Component & Content

Components	Content (wt %)	CAS No.
Gel (proprietary)	100%	N/A
Clotting Activator (proprietary)	100%	N/A

Product Order Numbers :

454028, 454067, 454071, 454092, 454095, 454096, 455071, 455092, 456071, 456073, 456089, 456092

I-416964 C-454067
 I-409235 C-454071
 I-417009 C-454028
 I-416955 C-454092
 I-416957 C-454095

DMF I-416950 C-454096
 DMF I-408764 C-455071
 I-409479 C-455071
 I-385924 C-455092
 I-416966 C-456071

I-416968 C-456073
 I-416961 C-456089
 I-416959 C-456092

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Physical / Chemical Properties

Features	Gel	Clotting Activator
Appearance	semi-transparent pale yellow, milky white paste mixture	milky white water suspension mixture
Smell	almost not offensive or very slight peculiar smell	almost not offensive or very slight peculiar smell
Boiling Temperature	Unknown	equivalent to water
Melting Temperature	Unknown	equivalent to water
Vapor Pressure	Unknown	equivalent to water
Volatility	not volatile at less than 170 °C	equivalent to water
Specific gravity	1.04 - 1.06 g/cm ³ at 25 °C	1.03 - 1.05 g/cm ³ at 25°C
Solubility	Insoluble in water, partially soluble in acetone	N / A
Viscosity	600,000 - 1,500,000 cp at 15 °C 100,000 - 250,000 cp at 25 °C 30,000 - 80,000 cp at 60 °C	N / A

Classification of Hazardous and Harmful Properties

Features	Gel	Clotting Activator
Category	combustible solid	N / A
Hazardous Property	Combustible	N / A
Harmful Property	Stimulus to the skin is very slight	Stimulus to the skin is very slight
Environmental Pollution	Vapor, smoke, carbon monoxide and carbon dioxide are generated due to combustion	N / A

Exposure and First Aid Treatment Information**Eyes:**

Immediately wash eyes with running water or saline (0.9 % sodium chloride solution) for at least 15 min. If symptoms like falling tears, dazzling or swelling continue, consult a doctor as soon as possible.

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Skin	Wipe off with cloth or paper and wash with soap or detergent. If the skin gets inflamed or pain is felt, consult a doctor.
Inhalation:	Move to a place where the air is fresh. In case of hard breathing, carry out artificial respiration or oxygen inhalation, then consult a doctor.
Ingestion:	Drink a cup of water, saline or milk to throw it up. After that, rinse your mouth out. Avoid vomiting if the consciousness is diminished. If you feel sick or pain, consult a doctor.

Fire Protection Information

Extinguishing Method:	Vapor, smoke, carbon monoxide and carbon dioxide are generated due to combustion. Carry out the extinguishing operation at the windward side, using a self-supply respirator or air mask in order to avoid inhaling the poisonous gas.
Extinguishing Agent:	Use foam, carbon dioxide, and powder extinguishing agents. Do not use water that will cause bursting and scattering.

Accidental Release Information

- **Wear proper protections when carrying out the job so that the skin will not be exposed to splash or the like.**
- **Remove the neighboring fire and heat sources to prevent catching fire.**
- **Prepare extinguishing agents against fire.**

- **Gather up those scattered and recollect them into a container which can be tightly closed and hold for disposal.**
- **Let them be absorbed by dry sand, soil or other incombustible for recollecting purpose.**

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Handling and Storage Information

- Handling :** Close container tight each time after use. Take care not to allow contact with skin, mucous or clothes, and to get into eyes.
- Storage :** Store indoors at 0 - 30°C, avoiding direct sunlight. Do not place a boiler or the like near a fire or heat source in order to prevent catching fire.

Exposure Prevention Information

No measure is needed for the equipment in handling at normal temperature and pressure, but it is desirable to take the following measure for the equipment in order to prevent a fire, etc.:

- Equipment :** Do not install a fire or heat source near the place. Install a safety shower, hands and eyes washing equipment.
- Protection :** Use protections such as a gas mask, goggle type glasses, solvent resisting gloves, long-sleeve clothes and long boots. In case of fire, use a self-supply respirator and air mask.

Hazardous Property Information

Flash Point	233 °C
Ignition Point	422 °C
Explosion Limit	Unknown
Combustibility	Preheating causes combustion
Ignition Property	N / A
Oxidizing Property	N / A
Self-reaction, Explosion Property:	N / A
Dust Explosion Property	N / A

Reactivity **stable at normal temperature and pressure**

Toxicological Information

Features:

Stimulation :	The eyes and respiratory organs could be stimulated by vapor, smoke, carbon monoxide, carbon dioxide generated due to combustion.
Acute Toxicity	Unknown
Semi Acute Toxicity	Unknown
Chronic Toxicity	Unknown
Sensitization	Unknown

Environmental Pollution Information

Difficult to Decompose

Disposal Information

Disposal should be done in accordance with all federal, state and local environmental regulations.

Regulatory Information

- EPA FIFRA 1988 Pesticide subject to registration or re-registration
- NOHS: 1974: HZD M3114; NIS 24; TNF 1951; NOS 9; TNE 60428
- NOES 1983: HZD M3114; NIS 9; TNF 562; NOS 13; TNE 4557; TFE 2633
- EPA TSCA Section 8(B) Chemical Inventory

Transportation Information

Make sure there is no leakage from the vessel. Carry out the loading in such a way that the packages will not fall down, drop or get damaged, taking measure to prevent collapse during transportation. Transport product at 0 - 40 °C, avoiding direct sunlight.

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Applicable Laws

Other Information

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