1. Identification

Product identifier

Microvettes CB 200 Z-Gel / Microvettes Z-Gel / Multivettes 600 Z-Gel

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

For serum separation.

Details of the supplier of the safety data sheet

Manufacturer

Company name:	SARSTEDT AG & Co. KG		
Street:	Sarstedtstraße 1		
Place:	D-51588 Nümbrecht		
Post-office box:	1220 D-51582 Nümbrecht		
Telephone:	+49 (0)2293 / 305 - 0	Telefax:	+49 (0)2293 / 305 - 2470
e-mail:	info@sarstedt.com		
Contact person:	Dr. Daniel Will Jochen Hoffmann	Telephone:	+49 (0)2293 / 305 - 4500
e-mail:	sicherheitsdatenblatt@sarstedt.com		
Internet:	www.sarstedt.com		
Responsible Department:	R & D Center		

Supplier

Company name:	Sarstedt Inc.		
Street:	1025 St. James Church Road		
Place:	USA-28658 Newton, NC		
Post-office box:	468 USA Newton, NC		
Telephone:	+1 828 465 4000	Telefax:	+1 828 465 4003
e-mail:	info.us@sarstedt.com		
Internet:	www.sarstedt.com		

Emergency phone number: Poison Control: 1-800-222-1222

Further Information

All information in this safety data sheet refers to the unused product and its preparation.

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Reproductive toxicity: Repr. 2

Label elements

29 CFR Part 1910.1200

Signal word: Warning

Pictograms:

Hazard statements

Suspected of damaging fertility or the unborn child

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container to ....

Additional advice on labelling

none

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Chemical characterization

The Microvette® contains an acrylic resin-based separating gel (< 180 mg) and a stabilized coagulation activator (silicate).

Hazardous components

CAS No	Components	Quantity
108-88-3	toluene	0.997 %

4. First-aid measures

Description of first aid measures

General information

If the user comes into contact with the preparation of the product, please note the following:

After inhalation

Provide fresh air. Get medical advice/attention if you feel unwell.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Call a physician immediately. Do not induce vomiting unless instructed by a physican.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

Do not breathe gas/fumes/vapour/spray.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Avoid contact with the preparation. Wear suitable protective gloves when taking blood samples and handling potentially infectious material.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Re-clean.

Reference to other sections

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid contact with the preparation. Wear suitable protective gloves when taking blood samples and handling potentially infectious material.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store at room temperature.

Hints on joint storage

No special measures are necessary.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
108-88-3	Toluene	200	-		TWA (8 h)	PEL
		C 300	-		Ceiling	PEL
108-88-3	Toluene	500	-		Peak	PEL
		100	375		TWA (8 h)	REL
		150	560		STEL (15 min)	REL

Additional advice on limit values

The preparation is stabilized with sodium azide (< 0.2 %).

Exposure controls

Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Wear suitable protective gloves when taking blood samples and handling potentially infectious material.

Eye/face protection

No special measures are necessary.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable protective gloves when taking blood samples and handling potentially infectious material.

Skin protection

Wear suitable protective clothing.

Respiratory protection

No special measures are necessary.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Separating gel: pasty / coagulation activator: solid
Color:	white
Odor:	characteristic
pH-Value:	No data available

Changes in the physical state

Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flash point:	No data available

Flammability

Solid/liquid:	No data available
Gas:	No data available

Explosive properties

No data available.

Lower explosion limits:	No data available
Upper explosion limits:	No data available

Self-ignition temperature

Solid:	No data available
Gas:	No data available
Decomposition temperature:	No data available

Oxidizing properties

No data available

Vapor pressure:	No data available
Density:	No data available
Water solubility:	almost insoluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	No data available
Relative vapour density:	No data available
Evaporation rate:	No data available

Other information

Solid content:	No data available

10. Stability and reactivity

Reactivity

No data available.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No data available.

Conditions to avoid

Heating (decomposition).

Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.

Hazardous decomposition products

No data available.

11. Toxicological information

Information on toxicological effects

Carcinogenicity (OSHA):	No ingredient of this mixture is listed.
Carcinogenicity (IARC):	Toluene (CAS 108-88-3) is listed in group 3.
Carcinogenicity (NTP):	No ingredient of this mixture is listed.

Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

12. Ecological information

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No information available.

Further information

Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

14. Transport information

US DOT 49 CFR 172.101

Proper shipping name: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

UN number: No dangerous good in sense of this transport regulation.
UN proper shipping name: No dangerous good in sense of this transport regulation.
Transport hazard class(es): No dangerous good in sense of this transport regulation.
Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number: No dangerous good in sense of this transport regulation.
UN proper shipping name: No dangerous good in sense of this transport regulation.
Transport hazard class(es): No dangerous good in sense of this transport regulation.
Packing group: No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 304 CERCLA:
Toluene (108-88-3): Reportable quantity = 1,000 (454) lbs. (kg)
SARA Section 311/312 Hazards:
Toluene (108-88-3): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard
SARA Section 313 Toxic release inventory:
Toluene (108-88-3): De minimis limit = 1.0 %, Reportable threshold = Standard
Clean Air Act Section 112(b):
Toluene (108-88-3)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Toluene (developmental), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other information

Changes

Revision date: 03/11/2022

Revision No: 2

This data sheet contains changes from the previous version in section(s): 1,9,12,16.

The scope of the safety data sheet has been extended.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)