

MATERIAL SAFETY DATA SHEET



Conforms to 93/112/EC and ISO 11014-1

1. Chemical Product and Company Identification

Product Name: ProtoBlue Safe

Product Number: EC-722

Chemical Names/

Colloidal suspension of coomassie G-250 powdered stain (

National Diagnostics

(800) 52

Description:

305 Patton Drive

(404) 69

Atlanta, GA 30336

Emergency Numbers

Chemtrec

(800) 424-9300 (U.S. & Canada)

01-703-527-3887 (outside U.S. & Canada)

2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #
Trisodium Citrate	2 - 5	68-04-2	

Extinguishing media

Use media appropriate to the primary cause of fire.

Protective Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Hazardous Combustion Products

N.A.

Unusual Fire and Explosion Hazards

Not considered an explosion hazard.

NFPA Codes: Health 1 Flammability 0 Reactivity 0

6. Accidental Release Measures

Steps to be taken in case material is released or spilled

Cover with dry lime or soda ash, pick up, keep in a closed container and hold for waste disposal.

Waste Disposal Method

Disposal must be made in accordance with applicable federal, state, and local regulations.

Personal Precautions

Wear appropriate protective equipment as specified in section 8.

7. Handling and Storage

Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area.

Storage Temperature

Room temperature

Disposal

Observe all national, state, and local regulations regarding disposal.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits

Component: Trisodium Citrate

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit

(PEL):

Engineering Controls

Not expected to require any special ventilation.

Respiratory Protection

Not expected to require personal respirator usage.

Eye Protection

Safety glasses.

Skin Protection

Wear protective gloves and clean body covering clothing.

Other Control Measures

9. Physical Properties

Boiling point no data

Evaporation Rate no data

Melting point no data

Solubility in water miscible in water

Vapor pressure (mmHg) water

pH no data

Vapor density (Air = 1) 3.4

Specific gravity (H₂O = 1) no data

% Volatile by volume 85

10. Stability and Reactivity

Stability

Stable under ordinary conditions of usage.

Conditions to Avoid

In compatibles

Hazardous Decomposition Products

N/A

Hazardous Polymerization

Will not occur

Incompatibles

Trisodium Citrate:

Strong oxidizers.

Water:

No incompatibility data found.

Ammonium Sulfate:

Sodium hypochlorite, potassium plus ammonium nitrate, potassium chlorate, potassium nitrite, and sodium-potassium powder plus ammonium nitrate, and other strong oxidizers.

Coomassie Blue G-250:

Strong oxidizers.

11. Toxicological Information

Product LD50 Values

ProtoBlue Safe Oral Rat LD50 (mg/kg): 21000

ProtoBlue Safe Dermal Rabbit LD50 (mg/kg):

Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Trisodium Citrate	No	No	None
Water	No	No	None
Ammonium Sulfate	No	No	None
Coomassie Blue G-250	No	No	None

12. Ecological Information

Trisodium Citrate

No information found.

Water

Not applicable.

Ammonium Sulfate

No information found.

Coomassie Blue G-250

No information found.

13. Disposal Considerations

Observe all national, state, and local regulations regarding disposal.

14. Transport Information

D.O.T.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

I.A.T.A.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

I.M.O.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

15. Regulatory Information

United States

TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Trisodium Citrate	No	No	No	No	No
Water	No	No	No	No	No
Ammonium Sulfate	No	No	No	Yes	No
Coomassie Blue G-250	No	No	No	Yes	No

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

EEC LABEL SYMBOL AND CLASSIFICATION



IRRITANT

R: 36/37/38

Irritating to eyes, respirator system and skin.

S: 26-36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

16. Other Information

NFPA Codes: Health 1 Flammability 0 Reactivity 0

MANUFACTURER DISCLAIMER: The information given herein is offered in good faith as accurate, but without guarantee. Conditions of the use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.