Fisher Scientific
Part of Thermo Fisher Scientific

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product and Company Identification

MSDS Name: Thromboplastin-DS
90139
Catalog Numbers: 100353, 100354, 100362, 250353, 250354, 250362, 292273, 292274
Synonyms: None.
Company Identification: Fisher Diagnostics
8365 Valley Pike
Middletown, VA 22645-0307
For information in the US, call: 800-528-0494
Emergency Number US: 800-524-0294
CHEMTREC Phone Number, US: 800-424-9300

Section 2 - Composition, Information on Ingredients

Risk Phrases:

CAS#: Not available
Chemical Name: Rabbit brain extract
%: 2.6
EINECS#: unlisted
Hazard Symbols:

Risk Phrases:

CAS#: 56-40-6
Chemical Name: Glycine
%: 2
EINECS#: 200-272-2
Hazard Symbols:

Risk Phrases:

CAS#: 5704-04-1
Chemical Name: Tricine
%: 1.34
EINECS#: 227-193-6
Hazard Symbols:

Risk Phrases:

CAS#: 7757-82-6
Chemical Name: Sodium sulfate
%: 0.7
EINECS#: 231-820-9
Hazard Symbols:

Risk Phrases:

CAS#: 9002-92-0
Chemical Name: Brij 35
%: 0.05
EINECS#: unlisted
Hazard Symbols:

Risk Phrases:

CAS#: 10043-52-4
Chemical Name: Calcium chloride
%: 0.13
EINECS#: 233-140-8
Hazard Symbols:

Risk Phrases:

CAS#: 25322-68-3
Chemical Name: Polyethylene glycol
%: 0.7
EINECS#: unlisted
Hazard Symbols:

Risk Phrases:

CAS#: 26628-22-8
Chemical Name: Sodium azide
%: 0.013
EINECS#: 247-852-1
Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! May be absorbed through intact skin. May cause eye, skin, and respiratory tract irritation. Target Organs: No data found.

Potential Health Effects

Eye: Contact may cause transient eye irritation. When substance becomes wet or comes in contact with moisture of the mucous membranes, it will cause irritation.

Skin: Low hazard for usual industrial handling. May be absorbed through the skin.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling.

Inhalation: May cause respiratory tract irritation.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: health: 1; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Store in a cool place in the original container and protect from sunlight. Keep container closed when not in use.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Rabbit brain extract	none listed	none listed	none listed
Glycine	none listed	none listed	none listed
Tricine	none listed	none listed	none listed
Sodium sulfate	none listed	none listed	none listed
Brij 35	none listed	none listed	none listed
Calcium chloride	none listed	none listed	none listed
Polyethylene glycol	none listed	none listed	none listed
Sodium azide	0.29 mg/m3 Ceiling (as NaN3); 0.11 ppm Ceiling (as hydrazoic acid, vapor)	none listed	none listed

OSHA Vacated PELs: Rabbit brain extract: None listed Glycine: None listed Tricine: None listed Sodium sulfate: None listed Brij 35: None listed Calcium chloride: None listed Polyethylene glycol: None listed Sodium azide: None listed

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this

material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Color: white
Odor: Odorless.
pH: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Not available
Decomposition Temperature: Not available
Solubility in water: Soluble in water.
Specific Gravity/Density: Not available.
Molecular Formula: Not applicable.
Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, dust generation.
Incompatibilities with Other Materials Not available
Hazardous Decomposition Products No data available.
Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 56-40-6: MB7600000
CAS# 5704-04-1: None listed
CAS# 7757-82-6: WE1650000
CAS# 9002-92-0: JR5960000 JR5970000 JR5990000 MD0875000
CAS# 10043-52-4: EV9800000
CAS# 25322-68-3: TQ3500000 TQ3520000 TQ3560000 TQ3580000 TQ3600000 TQ3610000 TQ3620000 TQ3630000 TQ3650000 TQ3675000 TQ3700000 TQ3800000 TQ3850000 TQ4025000 TQ4026000 TQ4027000 TQ4028000 TQ4030000 TQ4040000 TQ4041000 TQ4050000 TQ4070000 TQ4100000 TQ4105000 TQ4110000 TQ4950000 TQ5090000 TR1579850 ZD2465300
CAS# 26628-22-8: VY8050000

LD50/LC50:
RTECS: Not available. RTECS:
CAS# 56-40-6: Oral, mouse: LD50 = 4920 mg/kg;
Oral, rat: LD50 = 7930 mg/kg;
.
RTECS:
CAS# 5704-04-1:.
RTECS:
CAS# 7757-82-6: Oral, mouse: LD50 = 5989 mg/kg;
.
RTECS:
CAS# 9002-92-0: Draize test, rabbit, eye: 10 mg;

Draize test, rabbit, eye: 100 mg;
Draize test, rabbit, eye: 750 ug/24H Severe;
Draize test, rabbit, skin: 100 mg;
Draize test, rabbit, skin: 500 mg/24H Mild;
Draize test, rabbit, skin: 75 mg/24H Mild;
Draize test, rabbit, skin: 500 mg/24H Moderate;
Oral, mouse: LD50 = 4940 mg/kg;
Oral, mouse: LD50 = 1170 mg/kg;
Oral, mouse: LD50 = 3500 mg/kg;
Oral, mouse: LD50 = 1170 mg/kg;
Oral, rat: LD50 = 8600 mg/kg;
Oral, rat: LD50 = 4150 mg/kg;
Oral, rat: LD50 = 8600 mg/kg;
Oral, rat: LD50 = 1 gm/kg;
.
RTECS:
CAS# 10043-52-4: Oral, mouse: LD50 = 1940 mg/kg;
Oral, rabbit: LD50 = 1384 mg/kg;
Oral, rat: LD50 = 1 gm/kg;
.
RTECS:
CAS# 25322-68-3: Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, eye: 100 uL Mild;
Draize test, rabbit, eye: 500 mg Mild;
Draize test, rabbit, eye: 500 mg Mild;
Draize test, rabbit, eye: 500 mg Mild;
Draize test, rabbit, eye: 500 mg Mild;
Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, eye: 500 mg Mild;
Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, skin: 500 mg/24H Mild;
Draize test, rabbit, skin: 500 mg/24H Mild;
Draize test, rabbit, skin: 500 mg Mild;
Oral, mouse: LD50 = 34 gm/kg;
Oral, mouse: LD50 = 31 gm/kg;
Oral, mouse: LD50 = 28915 mg/kg;
Oral, mouse: LD50 = 36 gm/kg;
Oral, rabbit: LD50 = 17300 mg/kg;
Oral, rabbit: LD50 = 76 gm/kg;
Oral, rabbit: LD50 = 14 gm/kg;
Oral, rabbit: LD50 = 17300 mg/kg;
Oral, rabbit: LD50 = 26800 mg/kg;
Oral, rabbit: LD50 = 19 gm/kg;
Oral, rabbit: LD50 = 28900 mg/kg;
Oral, rabbit: LD50 = 76 gm/kg;
Oral, rat: LD50 = 28 gm/kg;
Oral, rat: LD50 = 31640 mg/kg;
Oral, rat: LD50 = 27500 mg/kg;
Oral, rat: LD50 = 22 gm/kg;
Oral, rat: LD50 = 30200 mg/kg;
Oral, rat: LD50 = 600 mg/kg;
Oral, rat: LD50 = 30 gm/kg;
Oral, rat: LD50 = 32 gm/kg;
Oral, rat: LD50 = 1054 RTECS:
CAS# 26628-22-8: Inhalation, mouse: LC50 = 32400 ug/m3;
Inhalation, rat: LC50 = 37 mg/m3;
Oral, mouse: LD50 = 27 mg/kg;
Oral, rat: LD50 = 27 mg/kg;
Skin, rabbit: LD50 = 20 mg/kg;
Skin, rat: LD50 = 50 mg/kg;
.

Carcinogenicity: Rabbit brain extract - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Glycine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Tricine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Sodium sulfate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Brij 35 - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Calcium chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Polyethylene glycol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Sodium azide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:	Not available
Teratogenicity:	Not available
Reproductive:	Not available
Neurotoxicity:	Not available
Mutagenicity:	Not available
Other:	Not available

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: CAS# 26628-22-8: waste number P105. RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

USA RQ: CAS# 26628-22-8: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 0-01-1 is not listed on the TSCA Inventory. It is for research and development use only.
CAS# 56-40-6 is listed on the TSCA Inventory.
CAS# 5704-04-1 is listed on the TSCA Inventory.
CAS# 7757-82-6 is listed on the TSCA Inventory.
CAS# 9002-92-0 is listed on the TSCA Inventory.
CAS# 10043-52-4 is listed on the TSCA Inventory.
CAS# 25322-68-3 is listed on the TSCA Inventory.
CAS# 26628-22-8 is listed on the TSCA Inventory.

Health & Safety Reporting List	None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules	None of the chemicals in this product are under a Chemical Test Rule.
Section 12b	None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule	None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs	CAS# 26628-22-8: 1000 lb final RQ; 454 kg final RQ
SARA Section 302	CAS# 26628-22-8: 500 lb TPQ (This material is a reactive solid. The TPQ does not default to

Extremely Hazardous Substances	10000 pounds for non-powder, non-molten, non-solvent form)
SARA Codes	CAS # 10043-52-4: acute, chronic, reactive. CAS # 25322-68-3. CAS # 26628-22-8: acute, chronic, reactive.
Section 313	This chemical is not at a high enough concentration to be reportable under Section 313. No chemicals are reportable under Section 313.
Clean Air Act:	This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act:	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:	
STATE	Rabbit brain extract is not present on state lists from CA, PA, MN, MA, FL, or NJ. Glycine is not present on state lists from CA, PA, MN, MA, FL, or NJ. Tricine is not present on state lists from CA, PA, MN, MA, FL, or NJ. Sodium sulfate can be found on the following state right to know lists: Pennsylvania, Massachusetts. Brij 35 is not present on state lists from CA, PA, MN, MA, FL, or NJ. Calcium chloride is not present on state lists from CA, PA, MN, MA, FL, or NJ. Polyethylene glycol can be found on the following state right to know lists: Minnesota. Sodium azide can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.
California Prop 65	
California No Significant Risk Level:	None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 56-40-6: 0

CAS# 5704-04-1: 1

CAS# 7757-82-6: 0

CAS# 9002-92-0: 2

CAS# 10043-52-4: 0

CAS# 25322-68-3: 1

CAS# 26628-22-8: 2

Canada

CAS# 56-40-6 is listed on Canada's DSL List

CAS# 5704-04-1 is listed on Canada's DSL List

CAS# 7757-82-6 is listed on Canada's DSL List

CAS# 9002-92-0 is listed on Canada's DSL List

CAS# 10043-52-4 is listed on Canada's DSL List

CAS# 25322-68-3 is listed on Canada's DSL List

CAS# 26628-22-8 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 0-01-1 is not listed on Canada's Ingredient Disclosure List.

CAS# 56-40-6 is not listed on Canada's Ingredient Disclosure List.

CAS# 5704-04-1 is not listed on Canada's Ingredient Disclosure List.

CAS# 7757-82-6 is not listed on Canada's Ingredient Disclosure List.

CAS# 9002-92-0 is listed on Canada's Ingredient Disclosure List

CAS# 10043-52-4 is not listed on Canada's Ingredient Disclosure List.

CAS# 25322-68-3 is not listed on Canada's Ingredient Disclosure List.

CAS# 26628-22-8 is listed on Canada's Ingredient Disclosure List

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #5 Date 3/22/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.