

**Material Safety Data Sheet**  
**Thromboplastin-D****Section 1 - Chemical Product and Company Identification****MSDS Name:**

Thromboplastin-D

**Catalog Numbers:**

100352, 100356, 100357, 100360, 176065, 176099, 250352, 250356, 250357, 250360, 292266

**Synonyms:**

None.

**Company Identification:**Fisher Diagnostics  
Fisher Scientific Company LLC  
8365 Valley Pike  
Middletown, VA 22645-0307**Company Phone Number:**

(800) 528-0494

**Emergency Phone Number:**

(800) 528-0494

**CHEMTREC Phone Number:**

800-424-9300

**CHEMTREC (International):**

703-527-3887

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	Percent	EINECS/ ELINCS
Not available	Rabbit Brain Extract	<0.9%	Not available
Not available	BSA Fraction V	0.84%	Not available
7365-45-9	HEPES	0.50%	230-907-9
25322-68-3	Polyethylene glycol	0.29%	Not available
7647-14-5	Sodium chloride	0.21 %	231-598-3
10043-52-4	Calcium chloride	0.11 %	233-140-8
26628-22-8	Sodium azide	0.08%	247-852-1
9002-92-0	Brij-35	0.05%	Not available

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**Thromboplastin-D****Section 3 - Hazards Identification****EMERGENCY OVERVIEW**

*Appearance: white solid*

*Caution! May cause eye, skin, and respiratory tract irritation.*

*Target Organs: no data found.*

**Potential Health Effects****Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation.

**Ingestion:**

May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**Inhalation:**

May cause respiratory tract irritation.

**Chronic:**

No information found.

**Section 4 - First Aid Measures****Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:**

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**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:**

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

**Notes to Physician:**

Treat symptomatically and supportively.

**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.

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**Autoignition Temperature:**

Not applicable.

**Explosion Limits:**

Lower: Not available. Upper: Not available.

**Flash Point:**

Not applicable.

**NFPA Rating:**

(estimated) Health: 1; Flammability: 0; Reactivity: 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. Avoid generating dusty conditions.

## Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. 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

**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**

Chemical Name:	ACGIH	NIOSH	OSHA
HEPES	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Polyethylene glycol	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium chloride	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Calcium chloride	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium azide	0.29 mg/m <sup>3</sup> Ceiling (as NaN <sub>3</sub> ); 0.11 ppm Ceiling (vapor, as hydrazoic acid)	0.1 ppm Ceiling (as HN <sub>3</sub> ); 0.3 mg/m <sup>3</sup> Ceiling (as NaN <sub>3</sub> )	None of the components are on this list.
Brij-35	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

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OSHA Vacated PELs

**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:** No information found**Vapor Pressure:** No information found**Vapor Density:** No information found**Evaporation Rate:** No information found**Viscosity:** No information found**Boiling Point:** Not available.**Freezing/Melting Point:** No information found**Decomposition Temperature:** No information found**Solubility in water:** Soluble in water.**Specific Gravity/Density:** No information found**Molecular Formula:** Not applicable.**Molecular Weight:** No information found**Section 10 - Stability and Reactivity****Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

High temperatures, incompatible materials.

**Incompatibilities with Other Materials**

Strong oxidants.

**Hazardous Decomposition Products**

No data available.

**Hazardous Polymerization**

Has not been reported

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**Thromboplastin-D****Section 11 - Toxicological Information****RTECS:**

CAS# 7365-45-9: TL6809000.

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# 7647-14-5: VZ4725000.

CAS# 10043-52-4: EV9800000.

CAS# 26628-22-8: VY8050000.

CAS# 9002-92-0: JR5960000; JR5970000; JR5990000; MD0875000.

**LD50/LC50:**

CAS# 7365-45-9:

No information foundCAS# 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 mg/kg

Oral, rat: LD50 = 51310 mg/kg

Oral, rat: LD50 = &gt;4 gm/kg

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**Thromboplastin-D****Carcinogenicity:**

CAS# 7365-45-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 25322-68-3: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 7647-14-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 10043-52-4: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 26628-22-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 9002-92-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

**Epidemiology:**

No information available.

**Teratogenicity:****Reproductive:**

No information available.

**Mutagenicity:****Neurotoxicity:**

No information found

**Other:**

See actual entry in RTECS for complete information.

**Section 12 - Ecological Information**

No information found

**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 Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P Series Wastes**

CAS# 26628-22-8: waste number P105.

**RCRA U Series Wastes**

None of the components are on this list.

**Section 14 - Transport Information****US DOT****Canadian TDG**

**Proper Shipping Name:** No information found

No information found

**Hazard Class:**

**UN Number:**

**Packing Group:**

**Section 15 - Regulatory Information**

**US Federal**

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**Thromboplastin-D****TSCA**

CAS# 7365-45-9 is listed on the TSCA Inventory.  
CAS# 25322-68-3 is listed on the TSCA Inventory.  
CAS# 7647-14-5 is listed on the TSCA Inventory.  
CAS# 10043-52-4 is listed on the TSCA Inventory.  
CAS# 26628-22-8 is listed on the TSCA Inventory.  
CAS# 9002-92-0 is listed on the TSCA Inventory.

**Health and Safety Reporting List**

None of the components are on this list.

**Chemical Test Rules**

None of the components are on this list.

**TSCA Section 12b**

None of the components are on this list.

**TSCA Significant New Use Rule (SNUR)**

None of the components are on this list.

**CERCLA Hazardous Substances and corresponding RQs**

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

**SARA Section 302 Extremely Hazardous Substances**

CAS# 26628-22-8: 500 lb TPQ (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solvent form)

**SARA Hazard Categories**

CAS# 7365-45-9: acute.  
CAS# 25322-68-3.  
CAS# 7647-14-5: acute.  
CAS# 10043-52-4: acute, chronic, reactive.  
CAS# 26628-22-8: acute, chronic, reactive.

**CERCLA/SARA Section 313**

Sodium azide is not at a high enough concentration to be reportable under Section 313.

**Clean Air Act - Hazardous Air Pollutants (HAPs)**

None of the components are on this list.

**Clean Air Act - Class 1 Ozone Depletors**

None of the components are on this list.

**Clean Air Act - Class 2 Ozone Depletors**

None of the components are on this list.

**Clean Water Act - Hazardous Substances**

None of the components are on this list.

**Clean Water Act - Priority Pollutants**

None of the components are on this list.

**Clean Water Act - Toxic Pollutants**

None of the components are on this list.

**OSHA - Highly Hazardous**

None of the components are on this list.

**US State****State Right to Know**

Polyethylene glycol can be found on the following state Right-to-Know lists: Minnesota.

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Sodium azide can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

#### California Regulations

CAS# Not available: No information found  
CAS# Not available: No information found  
CAS# 7365-45-9: No information found  
CAS# 25322-68-3: No information found  
CAS# 7647-14-5: No information found  
CAS# 10043-52-4: No information found  
CAS# 26628-22-8: No information found  
CAS# 9002-92-0: No information found

#### European/International Regulations

##### European Labelling in Accordance with EC Directives:

Hazard Symbols:

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

##### WGK (Water Danger/Protection)

CAS# Not available: No information found  
CAS# Not available: No information found  
CAS# 7365-45-9: No information found  
CAS# 25322-68-3: 1  
CAS# 7647-14-5: 0  
CAS# 10043-52-4: 0  
CAS# 26628-22-8: 2  
CAS# 9002-92-0: 2

##### United Kingdom Occupational Exposure Limits

No information found

##### Canadian DSL/NDSL

CAS# 7365-45-9 is listed on Canada's DSL List.  
CAS# 25322-68-3 is listed on Canada's DSL List.  
CAS# 7647-14-5 is listed on Canada's DSL List.  
CAS# 10043-52-4 is listed on Canada's DSL List.  
CAS# 26628-22-8 is listed on Canada's DSL List.  
CAS# 9002-92-0 is listed on Canada's DSL List.

##### Canadian WHMIS Classifications

This product does not have a WHMIS classification.

##### Canadian Ingredient Disclosure List

CAS# Not available is not listed on Canada's Ingredient Disclosure List.  
CAS# Not available is not listed on Canada's Ingredient Disclosure List.  
CAS# 7365-45-9 is not listed on Canada's Ingredient Disclosure List.  
CAS# 25322-68-3 is not listed on Canada's Ingredient Disclosure List.  
CAS# 7647-14-5 is not listed on Canada's Ingredient Disclosure List.  
CAS# 10043-52-4 is not listed on Canada's Ingredient Disclosure List.  
CAS# 26628-22-8 is listed on Canada's Ingredient Disclosure List.  
CAS# 9002-92-0 is listed on Canada's Ingredient Disclosure List.



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**Thromboplastin-D****Exposure Limits**

CAS# 26628-22-8: OEL-AUSTRALIA:TWA 0.1 ppm (0.3 mg/m<sup>3</sup>)  
OEL-BELGIUM:STEL 0.11 ppm (0.3 mg/m<sup>3</sup>)  
OEL-DENMARK:TWA 0.3 mg/m<sup>3</sup>  
OEL-FINLAND:TWA 0.1 ppm (0.3 mg/m<sup>3</sup>);STEL 0.3 ppm (0.9 mg/m<sup>3</sup>)  
OEL-FRANCE:STEL 0.1 ppm (0.3 mg/m<sup>3</sup>)  
OEL-GERMANY:TWA 0.07 ppm (0.2 mg/m<sup>3</sup>)  
OEL-THE NETHERLANDS:TWA 0.1 ppm (0.3 mg/m<sup>3</sup>)  
OEL-SWITZERLAND:TWA 0.07 ppm (0.2 mg/m<sup>3</sup>)  
OEL-UNITED KINGDOM:TWA 0.1 ppm (0.3 mg/m<sup>3</sup>);STEL  
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV  
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

**Section 16 - Other Information**

Color information has been  
MSDS Creation Date: September 2, 1997  
Revision Date: March 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 merchantability 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.*