Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

Issuing Date: 2017-08-20 **Revision Date:** 2024-04-19 **Version:** 3

SECTION 1. Identification

Product identifier

Product No 12957

Product name Western Blotting Applications Solutions Kit

Kit Component
9803: Cell Lysis Buffer (10X)
56036: 3X Blue Loading Buffer
14265: 30X Reducing Agent
59329: Blue Prestained Protein Marker, Broad Range (11-250 kDa)
9998: BSA
7074: Anti-rabbit IgG, HRP-linked Antibody
7076: Anti-mouse IgG, HRP-linked Antibody
8553: PMSF
4050: Tris-Glycine SDS Running Buffer (10X)
12369: Nitrocellulose Sandwiches
12539: Tris-Glycine Transfer Buffer (10X)
9997: Tris Buffered Saline with Tween® 20 (TBST-10X)
9999: Nonfat Dry Milk
46935: SignalFire™ ECL Reagent A
74709: SignalFire™ ECL Reagent B

Hazardous Components
56036: 3X Blue Loading Buffer
14265: 30X Reducing Agent
12369: Nitrocellulose Sandwiches
9803: Cell Lysis Buffer (10X)
8553: PMSF

UN number UN3316

Recommended use of the chemical and restrictions on use

Identified uses This product is intended for research purposes only.

Manufacturer, importer, supplier

Manufacturer address
Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
United States
TEL: +1 978 867 2300
FAX: +1 978 867 2400

Website www.cellsignal.com

Email address support@cellsignal.com

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

SECTION 2. Hazard(s) identification

Classification

Classification and label elements described below are inclusive of all hazards of the combined kit. The most severe classifications are listed for each endpoint. Refer to individual kit component SDS for classification and label elements for each component present in the kit. This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute oral toxicity	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Chronic aquatic toxicity	Category 3
Flammable solids	Category 1

GHS Label elements, including precautionary statements

Signal Word
Danger

Hazard statement(s)
Flammable solids.
Toxic if swallowed.
Causes severe skin burns and eye damage.
Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)
Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapors/spray.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
In case of fire: Use CO2, dry chemical, or foam to extinguish
Store locked up.
Dispose of contents/container to an approved waste disposal plant.
Avoid release to the environment.

Supplementary Hazard Information

Hazards not otherwise classified (HNOC)
Not applicable.

SECTION 3. Composition/information on ingredients

Kit Component **9803: Cell Lysis Buffer (10X)**

DANGER: Causes skin irritation. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

Chemical name	CAS No	Weight-%
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	9002-93-1	5-10
tetrasodium pyrophosphate, decahydrate	13472-36-1	0.1-1

Kit Component **56036: 3X Blue Loading Buffer**

WARNING: Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

Chemical name	CAS No	Weight-%
glycerol	56-81-5	30-60
sodium dodecyl sulphate	151-21-3	5-10

Kit Component **14265: 30X Reducing Agent**

WARNING: Causes skin irritation. Causes serious eye irritation.

Chemical name	CAS No	Weight-%
(R*,R*)-1,4-dimercaptobutane-2,3-diol	3483-12-3	10 - <20

Kit Component **8553: PMSF**

DANGER: Toxic if swallowed. Causes severe skin burns and eye damage.

Chemical name	CAS No	Weight-%
alpha-toluenesulphonyl fluoride	329-98-6	100

Kit Component **12369: Nitrocellulose Sandwiches**

DANGER: Flammable solid.

Chemical name	CAS No	Weight-%
nitrocellulose, containing a maximum of 12,6 % nitrogen	9004-70-0	60-100

Kit Component **59329: Blue Prestained Protein Marker, Broad Range (11-250 kDa)**

Chemical name	CAS No	Weight-%
glycerol	56-81-5	25-35
sodium dodecyl sulphate	151-21-3	1-3
sodium azide	26628-22-8	<0.01

Kit Component **46935: SignalFire™ ECL Reagent A**

Chemical name	CAS No	Weight-%
ethanediol	107-21-1	1-3

Kit Component **74709: SignalFire™ ECL Reagent B**

Chemical name	CAS No	Weight-%
sodium salt of weak mineral acid	TRADE SECRET	0.1-1

Kit Component **9998: BSA**

Chemical name	CAS No	Weight-%
albumins, blood serum	9048-46-8	100

Kit Component
12539: Tris-Glycine Transfer Buffer (10X)
9997: Tris Buffered Saline with Tween® 20 (TBST-10X)
9999: Nonfat Dry Milk
7074: Anti-rabbit IgG, HRP-linked Antibody
7076: Anti-mouse IgG, HRP-linked Antibody

These products do not contain substances at concentrations requiring disclosure under 29 CFR 1910.1200 (OSHA Hazard Communication Standard).

SECTION 4. First-aid measures

Eye contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.

Skin contact Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Immediate medical attention is required. Move to fresh air. If not breathing, give artificial respiration.

Ingestion Immediate medical attention is required. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Advice for emergency responders

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Protection of first-aiders Use personal protective equipment Avoid contact with skin, eyes and clothing

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Carbon dioxide (CO_2)

Water spray
Dry chemical
Foam

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. **Nitrocellulose -** Extremely flammable. Will be easily ignited by heat, sparks or flames. **PMSF -** Water hydrolyzes material liberating acidic gas. Contact with metals may evolve flammable hydrogen gas.

Hazardous Combustion Products	Carbon oxides (COx). Nitrogen oxides (NOx). Sulfur oxides. Hydrogen fluoride.

Explosion Data

Sensitivity to Mechanical Impact	Not impact sensitive.
Sensitivity to Static Discharge	Yes.

Protective Equipment and Precautions for Firefighters

In the event of fire and/or explosion do not breathe fumes. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Other information	DO NOT GET WATER on spilled substance or inside containers.

Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Use personal protective equipment. Liquids: Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Solids: Avoid dust formation. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Sweep up and shovel into suitable containers for disposal.

SECTION 7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Prevent the formation of vapors, mists and aerosols. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Use only in area provided with appropriate exhaust ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers.
Packaging material	No information available.
Incompatible products	Strong oxidizing agents, Strong acids, Strong bases, Water.

SECTION 8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values			
Chemical name	**ACGIH TLV**	**OSHA PEL**	**NIOSH REL**
glycerol	-	TWA mist, total particulate: 15 mg/m³ TWA mist, respirable fraction: 5 mg/m³	-
ethanediol	Ceiling: 100 mg/m³	-	-
tetrasodium pyrophosphate, decahydrate	-	-	TWA : 5 mg/m³
sodium azide	Ceiling: 0.29 mg/m³ Ceiling: 0.11 ppm	-	Ceiling: 0.1 ppm Ceiling: 0.3 mg/m³

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection	Tightly fitting safety goggles.
Skin and body protection	Wear protective gloves/clothing.
Respiratory protection	In case of inadequate ventilation wear respiratory protection.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

SECTION 9. Physical and chemical properties

Information on the known physical chemical properties of each component within Kit are given below. If not included, information is either not available or not applicable. Refer to individual kit component SDS for further information.

Information on basic physical and chemical properties

Kit Component	**9803: Cell Lysis Buffer (10X)**
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH	7.5

Kit Component	**56036: 3X Blue Loading Buffer**
Physical state	Liquid
Color	Blue

Kit Component	**14265: 30X Reducing Agent**
Physical state	Liquid
Appearance	Clear
Color	Colorless
Odor	Rotten-egg like

Kit Component	**59329: Blue Prestained Protein Marker, Broad Range (11-250 kDa)**
Physical state	Liquid
Color	Purple
pH	7.5

Kit Component	**9998: BSA**
Physical state	Solid
Appearance	Powder, Lyophilized
Color	Off-white / light yellow
pH	6.7 - 7.3

Kit Component	**7074: Anti-rabbit IgG, HRP-linked Antibody**
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH	7.5

Kit Component	**7076: Anti-mouse IgG, HRP-linked Antibody**
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH	7.5

Kit Component	**8553: PMSF**
Physical state	Solid
Appearance	Crystalline Powder
Color	Off-white / light yellow
Melting point/freezing point	92 °C

Kit Component	**4050: Tris-Glycine SDS Running Buffer (10X)**
Physical state	Liquid
Appearance	Clear
Color	Colorless / Yellow
pH	8.6

Kit Component	**12369: Nitrocellulose Sandwiches**
Physical state	Solid
Appearance	Membrane
Color	White to off-white
Odor	Odorless
Autoignition temperature	> 160 °C

Kit Component	**12539: Tris-Glycine Transfer Buffer (10X)**
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH	8.3

Kit Component	**9997: Tris Buffered Saline with Tween® 20 (TBST-10X)**
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH	7.4

Kit Component	**9999: Nonfat Dry Milk**
Physical state	Solid
Appearance	Powder, Lyophilized
Color	White to off-white

Kit Component	**46935: SignalFire™ ECL Reagent A**
Physical state	Liquid
Appearance	Clear
Color	Colorless / Light pink
pH	9.5

Kit Component	**74709: SignalFire™ ECL Reagent B**
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH	5
Solubility	Soluble in water

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

PMSF - Reaction with water or moist air will release toxic, corrosive or flammable gases. (Hydrogen fluoride).

Possibility of hazardous reactions

Hazardous reactions	Reacts with water to produce toxic and corrosive gas. Exothermic reaction possible with strong oxidizers.
Hazardous polymerization	None under normal processing.

Conditions to Avoid

Incompatible products, Extremes of temperature and direct sunlight, Keep away from open flames, hot surfaces and sources of ignition, Storage near to reactive materials, Exposure to moisture

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases, Water.

Hazardous Decomposition Products

Carbon oxides (COx), Nitrogen oxides (NOx), Sulfur oxides, Hydrogen fluoride

SECTION 11. Toxicological information

Information on likely routes of exposure

Product Information
Refer to kit component SDS for full toxicological information. This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

Inhalation

Kit Component **8553: PMSF**
Inhalation Contact with moist mucous membranes of the respiratory system can cause caustic condition resulting in burns

Eye contact

Kit Component **9803: Cell Lysis Buffer (10X)**
Eye contact Corrosive to the eyes and may cause severe damage including blindness.

Kit Component **56036: 3X Blue Loading Buffer**
Eye contact May cause irritation.

Kit Component **14265: 30X Reducing Agent**
Eye contact May cause irritation.

Kit Component **8553: PMSF**
Eye contact Corrosive to the eyes and may cause severe damage including blindness.

Skin contact

Kit Component **9803: Cell Lysis Buffer (10X)**
Skin contact Irritating to skin

Kit Component **56036: 3X Blue Loading Buffer**
Skin contact Irritating to skin

Kit Component **14265: 30X Reducing Agent**
Skin contact Irritating to skin

Kit Component **8553: PMSF**
Skin contact Corrosive to skin. May cause burns

Ingestion

Kit Component **8553: PMSF**
Ingestion Ingestion causes burns of the upper digestive and respiratory tract.

Information on toxicological effects

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h
nitrocellulose, containing a maximum of 12,6 % nitrogen	> 5000 mg/kg (Rat)	-	-
alpha-toluenesulphonyl fluoride	200 (mg/kg) (mice)	-	-
(R*,R*)-1,4-dimercaptobutane-2,3-diol	400 mg/kg (Rat)	-	-
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	= 1800 mg/kg (Rat)	-	-
sodium dodecyl sulphate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h
ethanediol	-	-	-
sodium salt of weak mineral acid	1200 mg/kg (Rat)	-	-
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Symptoms Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate.

Skin and Eye Corrosion/Irritation

Kit Component	**9803: Cell Lysis Buffer (10X)**
Serious eye damage/eye irritation	Risk of serious damage to eyes
Skin corrosion/irritation	Irritating to skin

Kit Component	**56036: 3X Blue Loading Buffer**
Serious eye damage/eye irritation	Causes serious eye irritation
Skin corrosion/irritation	Causes skin irritation

Kit Component	**14265: 30X Reducing Agent**
Serious eye damage/eye irritation	Causes serious eye irritation
Skin corrosion/irritation	Irritating to skin

Kit Component	**8553: PMSF**
Serious eye damage/eye irritation	Risk of serious damage to eyes
Skin corrosion/irritation	Causes burns

Sensitization No information available

Mutagenic effects No information available

Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity No information available.

Systemic Target Organ Toxicity (STOT) No information available

Aspiration Hazard No information available.

SECTION 12. Ecological information

Ecotoxicity

Product Information
Component Information

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus mykiss) 96 h	EC50 500 mg/L (Daphnia magna) 24 h
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	-	LC50 8.9 mg/l (Pimephales promelas) 96 h	EC50 26 mg/l (Daphnia) 48 h
sodium dodecyl sulphate	EC50 53 mg/L (Desmodesmus subspicatus) 72 h EC50 30 - 100 mg/L (Desmodesmus subspicatus)	LC50 8 - 12.5 mg/L (Pimephales promelas) 96 h LC50 4.1 mg/L (Leuciscus idus) 48 h LC50 22.1 -	EC50 21.2 mg/L (Daphnia magna) 24 h EC50 1.8 mg/L (Daphnia magna) 48 h

	96 h EC50 42 mg/L (Desmodesmus subspicatus) 96 h EC50 3.59 - 15.6 mg/L (Pseudokirchneriella subcapitata) 96 h EC50 117 mg/L (Pseudokirchneriella subcapitata) 96 h	22.8 mg/L (Pimephales promelas) 96 h LC50 4.3 - 8.5 mg/L (Oncorhynchus mykiss) 96 h LC50 4.62 mg/L (Oncorhynchus mykiss) 96 h LC50 4.2 mg/L (Oncorhynchus mykiss) 96 h LC50 7.97 mg/L (Brachydanio rerio) 96 h LC50 9.9 - 20.1 mg/L (Brachydanio rerio) 96 h LC50 4.06 - 5.75 mg/L (Lepomis macrochirus) 96 h LC50 4.2 - 4.8 mg/L (Lepomis macrochirus) 96 h LC50 4.5 mg/L (Lepomis macrochirus) 96 h LC50 5.8 - 7.5 mg/L (Pimephales promelas) 96 h LC50 10.2 - 22.5 mg/L (Pimephales promelas) 96 h LC50 6.2 - 9.6 mg/L (Pimephales promelas) 96 h LC50 13.5 - 18.3 mg/L (Poecilia reticulata) 96 h LC50 10.8 - 16.6 mg/L (Poecilia reticulata) 96 h LC50 1.31 mg/L (Cyprinus carpio) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h	
ethanediol	EC50 6500 - 13000 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 40761 mg/L (Oncorhynchus mykiss) 96 h LC50 27540 mg/L (Lepomis macrochirus) 96 h LC50 41000 mg/L (Oncorhynchus mykiss) 96 h LC50 14 - 18 mL/L (Oncorhynchus mykiss) 96 h LC50 40000 - 60000 mg/L (Pimephales promelas) 96 h LC50 16000 mg/L (Poecilia reticulata) 96 h	EC50 46300 mg/L (Daphnia magna) 48 h
sodium salt of weak mineral acid	-	-	EC50 6.98 - 10.68 mg/L (Ceriodaphnia dubia) 48h
sodium azide	EC50 0.35 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h LC50 5.46 mg/L (Pimephales promelas) 96 h LC50 0.7 mg/L (Lepomis macrochirus) 96 h	LC100 1 mg/L (Orconectes rusticus) 96 h

Persistence and degradability

Kit Component	**9997: Tris Buffered Saline with Tween® 20 (TBST-10X)**
Persistence and degradability	Product is biodegradable

Bioaccumulation

Kit Component	**12369: Nitrocellulose Sandwiches**
Bioaccumulation	Not likely to bioaccumulate

Kit Component	**9997: Tris Buffered Saline with Tween® 20 (TBST-10X)**
Bioaccumulation	Does not bioaccumulate

Chemical name	Octanol-Water Partition Coefficient
glycerol	-1.76
sodium dodecyl sulphate	1.6
ethanediol	-1.93

Mobility

Kit Component	**12369: Nitrocellulose Sandwiches**
Mobility	Is not likely mobile in the environment due its low water solubility

Kit Component	**9997: Tris Buffered Saline with Tween® 20 (TBST-10X)**
Mobility	Will likely be mobile in the environment due to its water solubility

Other adverse effects

No information available.

SECTION 13. Disposal considerations

Waste Disposal Methods

Should not be released into the environment. Dispose of in accordance with local regulations.

Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way. Dispose of wastes in an approved waste disposal facility.

SECTION 14. Transport information

DOT

UN number	UN3316
UN proper shipping name	Chemical kit
Transport hazard class(es)	9
Packing group	II

IATA

UN number	UN3316
UN proper shipping name	Chemical kit
Transport hazard class(es)	9
Packing group	II

SECTION 15. Regulatory information

North American Inventory Listing

Refer to kit component SDS for full Toxic Substance Control Act (TSCA) reporting requirements.

Chemical name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
glycerol	Listed	Not Listed	Listed	Not Listed
albumins, blood serum	Listed	Not Listed	Listed	Not Listed
nitrocellulose, containing a maximum of 12,6 % nitrogen	Listed	Not Listed	Listed	Not Listed
alpha-toluenesulphonyl fluoride	Listed	Not Listed	Listed	Not Listed
(R*,R*)-1,4-dimercaptobutane-2,3-diol	Listed	Not Listed	Listed	Not Listed
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	Listed	Not Listed	Listed	Not Listed
sodium dodecyl sulphate	Listed	Not Listed	Listed	Not Listed
ethanediol	Listed	Not Listed	Listed	Not Listed
sodium salt of weak mineral acid	Not Listed	Not Listed	Not Listed	Not Listed
sodium azide	Listed	Not Listed	Listed	Not Listed

SARA 313

Refer to kit component SDS for full SARA Section 313 reporting requirements.

Chemical name	CAS No	SARA 313 - Threshold Values %
ethanediol	107-21-1	1.0
trisodium tetraoxovanadate	13721-39-6	1.0
sodium azide	26628-22-8	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

Refer to kit component SDS for full Comprehensive Environmental Response Compensation and Liability Act (CERCLA) reporting requirements.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
ethanediol	5000 lb	Not Listed
sodium azide	1000 lb	1000 lb

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Refer to kit component SDS for applicable State Right-To-Know (RTK) information.

Chemical name	New Jersey	Massachusetts	Pennsylvania
glycerol	Listed	Listed	Listed
nitrocellulose, containing a maximum of 12,6 % nitrogen	Listed	Listed	Listed
ethanediol	Listed	Listed	Listed
tetrasodium pyrophosphate, decahydrate	Listed	Listed	Listed
trisodium tetraoxovanadate	Listed	Not Listed	Not Listed
sodium azide	Listed	Listed	Listed

SECTION 16. Other information

Issuing Date: 2017-08-20
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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet