

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : BLOOD & STAIN REMOVER
Product code : 511

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Laundry pre-spotter
Restrictions on use : For professional use only

1.4. Supplier's details

Christeyns North America, LLC
311 Staton Road
Greenville, NC 27834
USA
T 252-756-8616 / 800.869.6171
info@christeyns.us - www.christeyns.com

1.5. Emergency phone number

Emergency number : VELOCITY EHS (800) 255-3924 (24 HOURS)
(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquid, Category 4	H227	Combustible liquid.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)

:



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H227 - Combustible liquid
H315 - Causes skin irritation
H318 - Causes serious eye damage

Precautionary statements (GHS US)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves, protective clothing, and eye protection.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403 - Store in a well-ventilated place.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Dipropylene glycol methyl ether	CAS-No.: 34590-94-8	7 - 13
Ammonium hydroxide	CAS-No.: 1336-21-6	1 - 5
Tetrapotassium pyrophosphate	CAS-No.: 7320-34-5	1 - 5
Alcohols, C10-16, ethoxylated	CAS-No.: 68002-97-1	1 - 5
Benzenesulfonic acid, C10-16-alkyl derivs.	CAS-No.: 68584-22-5	1 - 5

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Treat symptomatically. Get medical attention if symptoms occur.

First-aid measures after skin contact : Rinse skin with plenty of water or shower. If irritation persists, get medical attention.

First-aid measures after eye contact : Rinse immediately with water for 15 minutes, occasionally lifting upper and lower eyelids. Remove contact lenses, if present, and easy to do. Continue rinsing. Get medical attention immediately.

First-aid measures after ingestion : Rinse mouth with water if the person is conscious. Do not induce vomiting unless directed by medical personnel. Get medical attention if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/injuries after eye contact : Risk of serious permanent damages to eyes if the product is not rapidly removed.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Do not use a water jet as this can spread the fire and may cause the splattering of corrosive liquid.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid. Decomposition products may include carbon oxides.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. In case of fire, do not breathe fumes. Move containers from the fire area if you can do so without risk. Prevent firefighting water from entering the environment.
Protection during firefighting : Wear a self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : For spills or leaks, contact a supervisor and/or emergency responder. Avoid contact with spilled material and keep unnecessary personnel away.

For emergency responders

Protective equipment : See Section 8 for recommended personal protective equipment. Ventilate the area and restrict access to the spill or leak zone. Have emergency procedures in place for treating exposures or incidents. Only trained and authorized personnel equipped with proper protective equipment should perform cleanup.

Environmental precautions : Avoid release onto the ground, into storm sewers, or bodies of water.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Contain spillage, soak up with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and collect all waste in suitable, labeled, and closed containers. Dispose according to local legislation (See Section 13).

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practices. Use only with adequate ventilation. Avoid contact with skin, eyes, and clothing. Use appropriate personal protection equipment (PPE). Wash thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep away from sources of heat or ignition.
Incompatible products : Keep away from strong acids, strong bases, flammables/combustibles, oxidizers, and reactive metals (aluminum, zinc, magnesium, iron filings).

BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Dipropylene glycol methyl ether (34590-94-8)

USA - ACGIH® - Threshold Limit Values

Local name	(2-Methoxymethylethoxy)propanol
ACGIH® TLV® TWA	50 ppm
Remark (ACGIH®)	TLV® Basis: Liver & CNS eff
Regulatory reference	ACGIH 2025

USA - OSHA - Occupational Exposure Limits

Local name	Dipropylene glycol methyl ether
OSHA PEL TWA	600 mg/m³ 100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

USA - NIOSH - Occupational Exposure Limits

Local name	Dipropylene glycol methyl ether
NIOSH REL 10h TWA	100 ppm
NIOSH REL (STEL)	150 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

8.2. Appropriate engineering controls

Appropriate engineering controls : Maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable guidelines, use only with adequate ventilation. Eye wash facilities and emergency showers must be available when handling this product.

8.3. Individual protection measures, such as personal protective equipment

Materials for protective clothing:

Wear suitable protective clothing. Long sleeved protective clothing.

Hand protection:

Chemical resistant PVC gloves

Eye protection:

Safety glasses with side shields.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Amber
Odor	: Ammonia
Odor threshold	: No data available
pH	: 9.5 – 10.5

BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: Combustible liquid.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

Dipropylene glycol methyl ether

Particle characteristics	No data available
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Ammonium hydroxide

Particle characteristics	No data available
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Tetrapotassium pyrophosphate

Particle characteristics	No data available
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Alcohols, C10-16, ethoxylated

Particle characteristics	No data available
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Benzenesulfonic acid, C10-16-alkyl derivs.

Particle characteristics	No data available
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9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Combustible product. Contact with strong oxidizing agents may cause exothermic reactions.

10.2. Chemical stability

Stable under recommended storage and handling conditions. Avoid elevated temperatures and direct sunlight, which may increase evaporation and degradation.

10.3. Possibility of hazardous reactions

No hazardous polymerization expected. Accumulation of vapors in confined or poorly ventilated areas may form flammable mixtures with air.

10.4. Conditions to avoid

Keep away from heat, sparks, open flames, hot surfaces, and other sources of ignition. Avoid prolonged exposure to air, sunlight, or high temperatures. Avoid confined spaces where vapors can accumulate.

BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.5. Incompatible materials

Incompatible with strong oxidizing agents (e.g. peroxides, chromates, nitrates), strong acids, and strong bases.

10.6. Hazardous decomposition products

Thermal decomposition may produce carbon oxides (CO, CO₂) and irritating/toxic vapors.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Dipropylene glycol methyl ether (34590-94-8)

LD50 oral rat	5660 mg/kg Source: ECHA
LD50 dermal rat	> 19020 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	9510 mg/kg body weight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Ammonium hydroxide (1336-21-6)

LD50 oral rat	> 350 mg/kg Source: HSDB
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Tetrapotassium pyrophosphate (7320-34-5)

LD50 oral rat	300 – 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rabbit	> 4640 mg/kg Source: National Library of Medicine
LC50 Inhalation - Rat	> 1.1 mg/l air Animal: rat, Guideline: other:, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: other:, Guideline: other:, Guideline: other:

Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)

LD50 oral rat	1350 mg/kg Source: IUCLID;
LD50 dermal rat	530 – 1060 mg/kg Source: IUCLID;
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1.9 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Causes skin irritation.
pH: 9.5 – 10.5

Serious eye damage/irritation : Causes serious eye damage.
pH: 9.5 – 10.5

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Dipropylene glycol methyl ether (34590-94-8)

NOAEL (oral, rat, 90 days)	1000 mg/kg body weight Animal: rat, Guideline: other:
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Tetrapotassium pyrophosphate (7320-34-5)

NOAEL (oral, rat, 90 days)	500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)

NOAEL (oral, rat, 90 days)	500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
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NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
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Aspiration hazard : Not classified

BLOOD & STAIN REMOVER

Viscosity, kinematic	No data available
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Dipropylene glycol methyl ether (34590-94-8)

Viscosity, kinematic	No data available
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Ammonium hydroxide (1336-21-6)

Viscosity, kinematic	No data available
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Tetrapotassium pyrophosphate (7320-34-5)

Viscosity, kinematic	No data available
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Alcohols, C10-16, ethoxylated (68002-97-1)

Viscosity, kinematic	No data available
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Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)

Viscosity, kinematic	No data available
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Symptoms/injuries after eye contact : Risk of serious permanent damages to eyes if the product is not rapidly removed.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Dipropylene glycol methyl ether (34590-94-8)

LC50 - Fish [1]	> 1000 mg/l Source: ECHA
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EC50 - Other aquatic organisms [1]	1930 mg/l Test organisms (species): other aquatic crustacea:
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EC50 72h - Algae [1]	> 969 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
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EC50 96h - Algae [1]	> 969 mg/l Source: ECHA
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LOEC (chronic)	0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
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BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Dipropylene glycol methyl ether (34590-94-8)	
NOEC (chronic)	≥ 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
Ammonium hydroxide (1336-21-6)	
EC50 - Crustacea [1]	> 0.66 mg/l Source: HSDB, ECHA
Tetrapotassium pyrophosphate (7320-34-5)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
Alcohols, C10-16, ethoxylated (68002-97-1)	
LC50 - Fish [1]	63.704 mg/l Source: ECOSAR
Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)	
LC50 - Fish [1]	3 mg/l Source: IUCLID
EC50 - Crustacea [1]	2.9 mg/l Source: IUCLID
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	170 mg/l Source: IUCLID

12.2. Persistence and degradability

BLOOD & STAIN REMOVER	
Persistence and degradability	Not rapidly degradable
Dipropylene glycol methyl ether (34590-94-8)	
Persistence and degradability	Not rapidly degradable
Ammonium hydroxide (1336-21-6)	
Persistence and degradability	Not rapidly degradable
Tetrapotassium pyrophosphate (7320-34-5)	
Persistence and degradability	Not rapidly degradable
Alcohols, C10-16, ethoxylated (68002-97-1)	
Persistence and degradability	Not rapidly degradable
Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

Dipropylene glycol methyl ether (34590-94-8)	
Log Pow	0.0043 Source: ECHA
Ammonium hydroxide (1336-21-6)	
Log Pow	-2.66 Source: EPISUITE

BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Tetrapotassium pyrophosphate (7320-34-5)

Log Pow	-10.45
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Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)

Log Pow	2
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12.4. Mobility in soil

Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)

Mobility in soil	1064
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12.5. Other adverse effects

No additional information available

SECTION 13 Disposal considerations

Regional legislation (waste)	: Avoid unauthorized disposal. Do not dump into any body of water. Comply with federal, state/provincial and local laws/regulations. Do not reuse empty containers.
Waste treatment methods	: Do not allow the product to contaminate any body of water. Refer to Section 8 for personal protection equipment.

SECTION 14 Transport information

In accordance with DOT

DOT

14.1. UN number

Not regulated for transport

14.2. Proper Shipping Name

Not regulated

14.3. Transport hazard class(es)

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Not regulated

No supplementary information available

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

BLOOD & STAIN REMOVER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Ammonium hydroxide	CAS-No. 1336-21-6	1 - 5%
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Ammonium hydroxide (1336-21-6)

CERCLA RQ	1000 lb
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Alcohols, C10-16, ethoxylated (68002-97-1)

SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure) Health hazard - Serious eye damage or eye irritation
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15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Dipropylene glycol methyl ether(34590-94-8)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Ammonium hydroxide(1336-21-6)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date : 7/16/2026

Full text of hazard classes and H-statements

H227	Combustible liquid
H315	Causes skin irritation
H318	Causes serious eye damage

Safety Data Sheet (SDS), USA ML

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.