

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : GREEN'R RINSE SOLID
Product code : 180291

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 : Rinse Aid
Recommended use : Laundry
Restrictions on use : For professional use only

1.4. Supplier's details

Christeyns North America
707 E Arlington Blvd.
Greenville, NC 27858
USA
T 252-756-8616 / 800.869.6171
www.christeyns.com - info@christeyns.us

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

Corrosive to metals, Category 1	H290	May be corrosive to metals.
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) : H290 - May be corrosive to metals
H315 - Causes skin irritation
H318 - Causes serious eye damage

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Precautionary statements (GHS US) : P234 - Keep only in original packaging.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves.
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.
P390 - Absorb spillage to prevent material-damage.

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Isotridecanol, ethoxylated [1 - 2.5 moles ethoxylated]	CAS-No.: 69011-36-5	3 - 7
2-phosphonobutane-1,2,4-tricarboxylic acid	CAS-No.: 37971-36-1	1 – 5
Sodium hydroxide	CAS-No.: 1310-73-2	0.1 - 1

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.
First-aid measures after eye contact : Rinse cautiously with water for 15 minutes; Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, call a physician.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

No additional information available

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

No additional information available

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

No additional information available

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5.3. Special protective equipment and precautions for fire-fighters

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

No additional information available

For emergency responders

Protective equipment : Ventilate spillage area. Avoid contact with skin and eyes. Only qualified personnel equipped with suitable protective equipment may intervene. Evacuate unnecessary personnel.

Environmental precautions : Avoid release to the environment. Collect all waste in suitable and labeled containers and dispose according to local legislation.

6.2. Methods and materials for containment and cleaning up

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear personal protective equipment.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Store in a dry place. Store in a closed container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Sodium hydroxide (1310-73-2)

USA - NIOSH - Occupational Exposure Limits

Local name	Sodium hydroxide
NIOSH REL (Ceiling)	2 mg/m ³
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

8.2. Appropriate engineering controls

Appropriate engineering controls : Use engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Environmental exposure controls : Store chemicals in designated areas with appropriate containment measures (e.g. spill trays, secondary containment). Have readily available spill kits with appropriate absorbent materials.

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8.3. Individual protection measures, such as personal protective equipment

Hand protection:
Chemical resistant PVC gloves
Eye protection:
Safety glasses with side shields.
Skin and body protection:
Wear suitable protective clothing. Long sleeved protective clothing.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Color	: Blue
Odor	: No data available
Odor threshold	: No data available
pH	: 5 – 7 (10%)
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.09 g/ml
Solubility	: No data available
Log Pow	: No data available
Autoignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Explosion limits	: Not applicable
Particle characteristics	: No data available

Isotridecanol, ethoxylated [1 - 2.5 moles ethoxylated]

Particle characteristics	No data available
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2-phosphonobutane-1,2,4-tricarboxylic acid

Particle characteristics	No data available
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Sodium hydroxide

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

No additional information available

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SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Iron or steel. Copper and copper alloys. Galvanized steel. Strong acids. Strong bases. Metals. Organic materials. Never mix with other materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

Isotridecanol, ethoxylated [1 - 2.5 moles ethoxylated] (69011-36-5)

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≈ 5960 mg/kg body weight Animal: rabbit, Animal sex: male

2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

LD50 oral rat	> 4000 mg/kg Source: OECD Screening Information Data Set
LD50 dermal rat	> 4000 mg/kg Source: OECD Screening Information Data Set
LC50 Inhalation - Rat	> 1.979 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapors)	> 1.979 mg/l Source: OECD Screening Information Data Set

Sodium hydroxide (1310-73-2)

LD50 dermal rabbit	1350 mg/kg Source: NCIS
ATE US (dermal)	1350 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
pH: 5 – 7 (10%)

Serious eye damage/irritation : Causes serious eye damage.
pH: 5 – 7 (10%)

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

Carcinogenicity : Not classified

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Isotridecanol, ethoxylated [1 - 2.5 moles ethoxylated] (69011-36-5)

NOAEL (oral,rat,90 days)	500 mg/kg body weight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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Aspiration hazard : Not classified

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Viscosity, kinematic	Not applicable
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Isotridecanol, ethoxylated [1 - 2.5 moles ethoxylated] (69011-36-5)

Viscosity, kinematic	No data available
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2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

Viscosity, kinematic	No data available
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Sodium hydroxide (1310-73-2)

Viscosity, kinematic	1.878 mm²/s
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SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Isotridecanol, ethoxylated [1 - 2.5 moles ethoxylated] (69011-36-5)

LC50 - Fish [1]	12.76 mg/l Source: EPISUITE v4.1
EC50 72h - Algae [1]	3.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	11.5 mg/l Source: EPISUITE v4.1

2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

LC50 - Fish [1]	1880000 mg/l Source: Ecological Structure Activity Relationships
EC50 72h - Algae [1]	140 mg/l Source: OECD Screening Information Data Set
EC50 72h - Algae [2]	140 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	329 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	104 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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Sodium hydroxide (1310-73-2)

LC50 - Fish [1]	35 mg/l
EC50 - Crustacea [1]	40.4 mg/l Source: ECHA

12.2. Persistence and degradability

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Persistence and degradability	No data available.
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Isotridecanol, ethoxylated [1 - 2.5 moles ethoxylated] (69011-36-5)

Persistence and degradability	Not rapidly degradable
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2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

Persistence and degradability	Not rapidly degradable
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Sodium hydroxide (1310-73-2)

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

GREEN'R RINSE SOLID

Bioaccumulative potential	No data available.
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2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

Log Pow	-1.36 Source: Quantitative Structure Activity Relation
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Sodium hydroxide (1310-73-2)

Log Pow	-3.88 Source: SRC
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12.4. Mobility in soil

Isotridecanol, ethoxylated [1 - 2.5 moles ethoxylated] (69011-36-5)

Mobility in soil	111.3 Source: EPISUITE v4.1
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2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

Mobility in soil	0.3212 Source: EPI Suite
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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

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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

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

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Sodium hydroxide (1310-73-2)

CERCLA RQ	1000 lb
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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

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Component	State or local regulations
Sodium hydroxide(1310-73-2)	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

Revision date : 10/1/2025

Issue date : 10/1/2025

Full text of hazard classes and H-statements	
H290	May be corrosive to metals
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.