

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : RECHARGE C
Product code : 925

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 : Heavy duty detergent
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

Corrosive to metals, Category 1	H290	May be corrosive to metals.
Skin corrosion/irritation, Category 1	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Respiratory sensitization, Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation.

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

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Hazard statements (GHS US)	: H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 - May cause respiratory irritation
Precautionary statements (GHS US)	: P234 - Keep only in original packaging. P260 - Do not breathe dusts or fumes. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing, eye protection, and face protection. P284 - Wear respiratory protection. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. 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). P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor. P363 - Take off immediately all contaminated clothing and wash it before reuse. P390 - Absorb spillage to prevent material-damage. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. 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	%
Disodium metasilicate	CAS-No.: 6834-92-0	15 - 40
Sodium percarbonate	CAS-No.: 15630-89-4	10 - 30
Subtilisin	CAS-No.: 9014-01-1	0.1 - 1
α -Amylase	CAS-No.: 9000-90-2	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 immediately.
First-aid measures after skin contact	: Remove contaminated clothing and wash before reuse. Rinse skin with plenty of water for at least 15 minutes. If exposed to small amounts, get medical attention if symptoms occur or irritation persists. If exposed to large amounts, get medical attention immediately.
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 immediately.

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4.2. Most important symptoms/effects, acute and delayed

Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: Highly corrosive to skin. Causes severe burns.
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

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.
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5.2. Specific hazards arising from the chemical

Fire hazard	: Contact with metals can release hydrogen gas. Decomposition products may include carbon oxides.
Hazardous decomposition products in case of fire	: Corrosive and/or 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.
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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.
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Environmental precautions	: Avoid release onto the ground, into storm sewers, or bodies of water.
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6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	: Collect all waste in suitable, labeled, and closed containers. Dispose according to local registration (See Section 13).
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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 : Store upright in a tightly closed, suitably labeled container. Store in a dry, cool, well-ventilated area with appropriate designated containment measures. Keep out of reach of children. Have readily available spill kits with appropriate absorbent materials. Protect from sunlight. Store in original labeled containers.

Incompatible products : Keep away from strong acids, strong bases, flammables/combustibles, oxidizers, and reactive metals (aluminum, zinc, magnesium, iron filings).

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Disodium metasilicate (6834-92-0)

USA - ACGIH® - Threshold Limit Values

ACGIH® TLV® TWA	2 mg/m³
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USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA	2 mg/m³
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Subtilisin (9014-01-1)

USA - ACGIH® - Threshold Limit Values

Local name	Bacillus subtilis, as 100% crystalline active pure enzyme
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ACGIH® TLV® C	0.00006 mg/m³
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Remark (ACGIH®)	TLV® Basis: Asthma; Skin, LRT & URT irr
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Regulatory reference	ACGIH 2025
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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 face shield

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SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Color	: White
Odor	: Fragrant
Odor threshold	: No data available
pH	: ≈ 12
pH solution concentration	: 1 %
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: $\approx 0.961 \text{ g/cm}^3$
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

Disodium metasilicate

Particle characteristics	No data available
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Sodium percarbonate

Particle characteristics	No data available
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Subtilisin

Particle characteristics	No data available
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α -Amylase

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

Corrosive product. Reacts with materials of opposite pH; may release heat or hydrogen gas. Contact with metals (e.g. aluminum, zinc, tin) may release hydrogen gas.

10.2. Chemical stability

Stable under recommended storage and handling conditions. Avoid contamination or exposure to extreme temperatures.

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10.3. Possibility of hazardous reactions

Mixing with incompatible materials (acids/bases or oxidizers) may cause exothermic reactions or gas release.

10.4. Conditions to avoid

Avoid contact with incompatible materials, heat, and direct sunlight. Avoid mixing with other cleaning products.

10.5. Incompatible materials

Incompatible with strong acids/bases, oxidizing agents, metals (aluminum, zinc, tin), organic materials, hypochlorites, and ammonia.

10.6. Hazardous decomposition products

Thermal decomposition may release corrosive and/or toxic fumes. Contact with metals can release hydrogen gas.

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

Disodium metasilicate (6834-92-0)

LD50 oral rat	1153 mg/kg
LD50 dermal rat	> 5000 mg/kg body weight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

Sodium percarbonate (15630-89-4)

LD50 oral rat	1034 mg/kg
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: other:

α-Amylase (9000-90-2)

LD50 oral rat	7500 mg/kg Source: National Library of Medicine
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Skin corrosion/irritation : Causes severe skin burns.
pH: ≈ 12

Serious eye damage/irritation : Causes serious eye damage.
pH: ≈ 12

Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Disodium metasilicate (6834-92-0)

NOAEL (animal/female, F0/P)	> 159 mg/kg body weight Animal: rat, Animal sex: female
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STOT-single exposure : May cause respiratory irritation.

Disodium metasilicate (6834-92-0)

STOT-single exposure	May cause respiratory irritation.
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Subtilisin (9014-01-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Disodium metasilicate (6834-92-0)	
NOAEL (oral,rat,90 days)	227 – 237 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified
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Viscosity, kinematic	No data available
Disodium metasilicate (6834-92-0)	
Viscosity, kinematic	No data available
Sodium percarbonate (15630-89-4)	
Viscosity, kinematic	No data available
Subtilisin (9014-01-1)	
Viscosity, kinematic	No data available
α-Amylase (9000-90-2)	
Viscosity, kinematic	No data available
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: Highly corrosive to skin. Causes severe burns.
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 (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Disodium metasilicate (6834-92-0)	
EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
Sodium percarbonate (15630-89-4)	
LC50 - Fish [1]	70.7 mg/l Source: EPA guideline, SIDS
EC50 - Crustacea [1]	4.9 mg/l Source: SIDS
ErC50 algae	> 7.7 mg/l Source: SIDS

12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable

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Disodium metasilicate (6834-92-0)

Persistence and degradability	Not rapidly degradable
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Sodium percarbonate (15630-89-4)

Persistence and degradability	Not rapidly degradable
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Subtilisin (9014-01-1)

Persistence and degradability	Not rapidly degradable
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α -Amylase (9000-90-2)

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

Disodium metasilicate (6834-92-0)

Log Pow	-5.65
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12.4. Mobility in soil

No additional information available

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

UN3262

14.2. Proper Shipping Name

Corrosive solid, basic, inorganic, n.o.s. (Sodium metasilicate)

Transport document description

UN3262 Corrosive solid, basic, inorganic, n.o.s. (Sodium metasilicate), 8, II

14.3. Transport hazard class(es)

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DOT	
14.4. Packing group	
	II
14.5. Environmental hazards	
	Dangerous for the environment: No
No supplementary information available	

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN3262
DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 212
DOT Packaging Bulk (49 CFR 173.xxx) : 240

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.

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
Sodium percarbonate(15630-89-4)	U.S. - New York City - Right to Know Hazardous Substances List

SECTION 16 Other information

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

Issue date : 8/10/2026

Full text of hazard classes and H-statements

H290	May be corrosive to metals
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Full text of hazard classes and H-statements	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

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.