

1. Identification

- Product Identifier: CLR® CLEAN AND CLEAR STONE
- Other means of Identification:
SDS number: RE1000003608/CCS2022
- Recommended Restrictions:
Product use: Cleaner
Restrictions on use: Not known.
- Manufacturer/Importer/Distributor Information Manufacturer/Supplier:
Osprey Biotechnics 1845 57th Street
Sarasota, FL 34243
941-351-2700
- Emergency telephone number: Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

2. Hazard(s) Identification

- **Hazard Classification**
- **Physical Hazards:**
- Gases under pressure – Compressed gas
- **Health Hazards:**
- Serious Eye Damage/Eye Irritation – Category 2A
- **Label Elements:**



- **Signal Word:** Warning
- **Hazard Statements:** Contains gas under pressure; may explode if heated. Causes serious eye irritation.
- **Precautionary Statements:**
- **Prevention:** Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection.
- **Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove
- **Storage:** Protect from sunlight. Store in a well-ventilated place.
- **Hazards(s) Not Otherwise Classified (HNOC):** None

3. Composition/Information on Ingredients

- **Mixtures:**

Chemical Identity	CAS number	Content in percent (%)*
2-Propanol, 1-propoxy-	1569-01-3	1 - <5%
Butane	106-97-8	1 - <5%
Propane	74-98-6	1 - <5%
Sodium nitrite	7632-00-0	0.1 - <1%
Proprietary Fragrance		0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-Aid Measures

- **Ingestion:** Rinse mouth thoroughly
 - **Inhalation:** Move to fresh air
 - **Skin Contact:** Remove contaminated clothing and wash the skin thoroughly with soap and water after work
 - **Eye Contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Most important symptoms/effects, acute and delayed:**
- **Symptoms:** No data available
 - **Hazards:** No data available
- Indication of immediate medical attention and special treatment needed:**
- **Treatment:** No data available

5. Fire-Fighting Measures

- **General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Stop flow of gas. Move containers from fire area if you can do so without risk.
- **Suitable (and unsuitable) Extinguishing Agents:**
Suitable Extinguishing Media: Use fire-extinguisher media appropriate for surrounding materials.
Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.
- **Specific hazards arising from the chemical:** Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters:
- **Special firefighting procedures:** No data available.
- **Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** No data available
- **Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
- **Notification Procedures:** Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.
- **Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

- **Precautions for safe handling:** Avoid contact with eyes. Wash hands thoroughly after handling.
- **Conditions for safe storage, including any incompatibilities:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Protect from sunlight. Store in a cool place. Aerosol Level 1

8. Exposure Controls/Personal Protection

- **Control parameters:**
Occupational Exposure Limits:

Chemical Identity	Type	Exposure Limit Values	Source
Butane	REL	800 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Propane	REL	1,000 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Sodium hydroxide (Na(OH))	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values (2008)
	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Silica	REL	6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	6 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

- **Appropriate Engineering Controls:** No Data Available

Individual Protection Measures, such as personal protective equipment:

- **General Information:** Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
- **Eye/Face Protection:** Wear safety glasses with side shields (or goggles)
- **Skin Protection:** No data available
- **Hand Protection:** No data available
- **Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
- **Hygiene Measures:** Avoid contact with eyes. Observe good industrial hygiene practices.
- **Other:** No data available

9. Physical and Chemical Properties

- **General Information**
- Physical State: Liquid
- Appearance:
 - Form: Spray Aerosol
 - Color: No data available
- Odour: No data available
- Odor threshold: No data available
- pH: No data available
- Change in condition
 - Melting point/Melting range: No data available
 - Boiling point/Boiling range: 100 °C (212 °F)
- Flash point: -104.44 °C
- Evaporation Rate: No data available
- Flammability (solid, gaseous): Non-flammable Aerosol
 - Upper/Lower limit on flammability or explosive limits
- Flammability limit - upper (%): No data available
- Flammability limit - lower (%): No data available
- Explosive limit - upper (%): No data available
- Explosive limit - lower (%): No data available
- Vapor Pressure: 3,102 - 4,481 hPa (20 °C)
- Vapor Density: No data available
- Density: Estimated 0.97 g/cm³
- Relative Density: No data available
- Solubility(ies): No data available
 - Solubility in water: No data available
 - Solubility (other): No data available
- Partition Coefficient (n-octano/water): No data available
- Auto-ignition temperature: Not applicable
- Decomposition temperature: No data available

- Viscosity: No data available

10. Stability and Reactivity

- Reactivity: No data available.
- Chemical stability: Material is stable under normal conditions.
- Possibility of hazardous reactions: No data available
- Conditions to avoid: Avoid heat or contamination
- Incompatible materials: No data available
- Hazardous decomposition products: No data available

11. Toxicological Information

- **Information on likely routes of exposure:**
 - Inhalation: No data available.
 - Skin Contact: No data available.
 - Eye contact: No data available.
 - Ingestion: No data available.
- **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Inhalation: No data available.
 - Skin Contact: No data available.
 - Eye contact: No data available.
 - Ingestion: No data available.
- **Information on toxicological effects:**
 - Acute toxicity (list all possible routes of exposure):
 - Oral Product: ATEmix: 95,187.73 mg/kg
 - Dermal Product: Not classified for acute toxicity based on available data.
- **Specified substance(s):**
 - 2-Propanol, 1-propoxy- LD 50 (Rabbit): 3,775 mg/kg
 - Sodium nitrite, Nitrous acid, sodium salt (1:1) LD 50: > 2,000 mg/kg
 - Proprietary Fragrance LD 50: > 2,000 mg/kg
 - Inhalation
- Product: Not classified for acute toxicity based on available data.
- Specified substance(s):
 - Butane LC 50: > 100 mg/l
 - LC 50: > 100 mg/l
 - Propane LC 50: > 100 mg/l
 - LC 50: > 100 mg/l
 - Sodium nitrite, Nitrous acid, sodium salt (1:1) LC 0 (Rat): 0.0951 mg/l
 - Proprietary Fragrance LC 50: > 5 mg/l
 - LC 50: > 20 mg/l
- Repeated dose toxicity:
- Product: No data available.
- **Specified substance(s):**
 - 2-Propanol, 1-propoxy- NOAEL (Rat(Female, Male), Inhalation): 300 ppm(m) Inhalation
- Experimental result, Key study

- Butane LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
- NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
- Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
- LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
- Sodium nitrite, Nitrous acid, sodium salt (1:1) NOAEL (Rat(Male), Oral, 2 yr): 10 mg/kg Oral Experimental result, Supporting study
- LOAEL (Rat(Male), Oral, 14 Weeks): 115 mg/kg Oral Experimental result, Weight of Evidence study
- Skin Corrosion/Irritation: No data available.
- **Specified substance(s):**
 - 2-Propanol, 1-propoxy- in vivo (Rabbit): Not irritant Experimental result, Key study
- Sodium nitrite, Nitrous acid, sodium salt (1:1) in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study
- **Serious Eye Damage/Eye Irritation:**
 - Product: No data available.
 - Specified substance(s):
 - 2-Propanol, 1-propoxy- Rabbit, 24 - 72 hrs: Irritating
- Respiratory or Skin Sensitization Product: No data available.
- Carcinogenicity Product: No data available.
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified
- US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified
- Germ Cell Mutagenicity In vitro:
- In vivo Product: No data available.
- Reproductive toxicity Product: No data available.
- Specific Target Organ Toxicity - Single Exposure Product: No data available.
- Specific Target Organ Toxicity - Repeated Exposure Product: No data available.
- Aspiration Hazard Product: No data available.
- Specified substance(s):
 - Proprietary Fragrance May be fatal if swallowed and enters airways.
- Other effects: No data available.

12. Ecological Information

- **Ecotoxicity:**
 - Acute hazards to the aquatic environment: Fish
- **Specified substance(s):**
 - 2-Propanol, 1-propoxy- LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Key study

- Butane: LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
- Propane: LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
- Sodium nitrite, Nitrous acid, sodium salt (1:1) LC 50 (Oncorhynchus mykiss, 96 h): 0.54 - 26.3 mg/l Experimental result, Key study
- Aquatic Invertebrates Specified:
- Product: No data available.
- 2-Propanol, 1-propoxy- LC 50 (Daphnia magna, 24 h): > 100 mg/l Experimental result, Key study
- LC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Key study
- **Substance(s):**
- Butane: LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
- Sodium nitrite, Nitrous acid, sodium salt (1:1) EC 50 (Daphnia magna, 48 h): 15.4 mg/l Experimental result, Key study
- Chronic hazards to the aquatic environment:
- Fish Product: No data available.
- Specified substance(s):
- Sodium nitrite, Nitrous acid, sodium salt (1:1) NOAEL (Cyprinus carpio): 1.05 mg/l Experimental result, Key study
- Aquatic Invertebrates: No data available.
- Specified substances:
- Sodium nitrite, Nitrous acid, sodium salt (1:1) NOAEL (Penaeus monodon): 2 mg/l Experimental result, Key study EC 50 (Penaeus monodon): 114.9 mg/l Experimental result, Key study
- LC 50 (Penaeus monodon): > 95.6 mg/l Experimental result, Key study
- Toxicity to Aquatic Plants Product: No data available.
- Persistence and Degradability:
- Biodegradation: No data available
- **Specified substance(s):**
- 2-Propanol, 1-propoxy- 91.5 % Detected in water. Experimental result, Key study
- Butane 100 % (385.5 h) Detected in water. Experimental result, Key study
- Propane 100 % (385.5 h) Detected in water. Experimental result, Key study
50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
- BOD/COD Ratio:
- Product: No data available.
- Bioaccumulative potential Bioconcentration Factor (BCF):
- Product: No data available.
- Partition Coefficient n-octanol / water (log Kow):
- Product: No data available.
- Mobility in soil: No data available.
- Known or predicted distribution to environmental compartments:
- 2-Propanol, 1-propoxy- No data available.
- Butane No data available.
- Propane No data available.
- Sodium nitrite, Nitrous acid, sodium salt (1:1) No data available.
- Proprietary Fragrance No data available.

- Other adverse effects: No data available.

13. Disposal Considerations

- Disposal Instructions: Wash before disposal. Dispose to controlled facilities.
- Contaminated Packaging: No data available

14. Transport Information

- **DOT**

UN Number: UN 1950
UN Proper Shipping Name: Aerosols, non-flammable
Transport Hazard Class(es)
Class: 2.2
Label(s): –
Packing Group: II
Marine Pollutant: No
Environmental Hazards: No
Marine Pollutant: No
Special precautions for user: Not regulated.

- **IMDG**

UN Number: UN 1950
UN Proper Shipping Name: Aerosols, non-flammable
Transport Hazard Class(es)
Class: 2
Label(s): –
EmS No.: –
Packing Group: –
Environmental Hazards: No
Marine Pollutant: No
Special precautions for user: Not regulated.

- **IATA**

UN Number: UN 1950
Proper Shipping Name: Aerosols, non-flammable
Transport Hazard Class(es):
Class: 2.2
Label(s): –
Packing Group: –
Environmental Hazards: No
Marine Pollutant: No
Special precautions for user: Not regulated.
Cargo aircraft only: Allowed.

15. Regulatory Information

- US Federal Regulations Restrictions on use: Not known.

- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): None present or none present in regulated quantities.
- **CERCLA Hazardous Substance List (40 CFR 302.4):**
- **Chemical Identity** **Reportable quantity**
- Butane lbs. 100
- Propane lbs. 100
- Sodium nitrite, Nitrous acid, sodium salt (1:1) lbs. 100
- Sodium hydroxide (Na(OH)) lbs. 1000
- **Superfund Amendments and Reauthorization Act of 1986 (SARA)**
- **Hazard categories:**
Fire Hazard
Immediate (Acute) Health Hazards
Flammable liquids
Serious Eye Damage/Eye Irritation
Static-accumulating flammable liquid
- **SARA 302 Extremely Hazardous Substance: None present or none present in regulated quantities.**
- **SARA 304 Emergency Release Notification**
- **Chemical Identity** **Reportable quantity**
- Butane lbs. 100
- Propane lbs. 100
- Sodium nitrite, Nitrous acid, sodium salt (1:1) lbs. 100
- Sodium hydroxide (Na(OH)) lbs. 1000
- SARA 311/312 Hazardous Chemical
- **Chemical Identity** **Threshold Planning Quantity**
- 2-Propanol, 1-propoxy- 10000 lbs
- Butane 10000 lbs
- Propane 10000 lbs
- Sodium nitrite, Nitrous acid, sodium salt (1:1) 10000 lbs
- Proprietary Fragrance 10000 lbs
- Sodium hydroxide (Na(OH)) 10000 lbs
- Silica 10000 lbs
- SARA 313 (TRI Reporting): None present or none present in regulated quantities.
- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
- **US State Regulations:**
US. California Proposition 65: No ingredient requiring a warning under CA Prop 65.
US. New Jersey Worker and Community Right-to-Know Act
- **Chemical Identity:**
- Butane

- Propane
- US. Massachusetts RTK - Substance List
- **Chemical Identity:**
- Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
- **US. Pennsylvania RTK - Hazardous Substances**
- **Chemical Identity:**
- Butane
- Propane
- US. Rhode Island RTK: No ingredient regulated by RI Right-to-Know Law present.
- International regulations:
- Montreal protocol: Not applicable
- Stockholm convention: Not applicable
- Rotterdam convention: Not applicable
- Kyoto protocol: Not applicable
- **Inventory Status:**
- Australia AICS: On or in compliance with the inventory
- Canada DSL Inventory List: On or in compliance with the inventory
- Canada NDSL Inventory: Not in compliance with the inventory.
- Ontario Inventory: Not in compliance with the inventory.
- China Inv. Existing Chemical Substances: On or in compliance with the inventory
- Japan (ENCS) List: Not in compliance with the inventory.
- Japan ISHL Listing: Not in compliance with the inventory.
- Japan Pharmacopoeia Listing: Not in compliance with the inventory.
- Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory
- Mexico INSQ: Not in compliance with the inventory.
- New Zealand Inventory of Chemicals: On or in compliance with the inventory
- Philippines PICCS: On or in compliance with the inventory
- Taiwan Chemical Substance Inventory: On or in compliance with the inventory
- US TSCA Inventory: On or in compliance with the inventory
- EINECS, ELINCS or NLP: Not in compliance with the inventory.

16. Other Information

- Issue Date: 2.25/2022
- Revision Information: Changes to format and ingredient name for CAS#7632-00-0
- Version #: 1.1
- Further Information: No data available.
- Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent.