

Safety Data Sheet
OSHA Hazard Communication Standard
29 CFR 1910.1200. Prepared to GHS Rev 7.

Date of issue: 02.15.2024

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Trade name: CRS-107 Glass Cleaner Concentrate
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SECTION 1: Identification

Product identifier used on the label:

Product Name: CRS-107 Glass Cleaner Concentrate

Other means of identification:

Product Code Number: CRS-107

Recommended use of the chemical and restrictions on use:

Recommended use: Glass cleaner

Recommended restrictions: Uses other than those described above

Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party:

Company Name: Crest Industries

Company Address: 231 Larkin Williams Industrial Ct.
Fenton, MO 63026

Company Telephone: (800) 733-2737

Emergency phone number: 24-hour Emergency Number (800) 424-9300

SECTION 2: Hazard identification

Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200:

Physical hazards

Flammable liquid, category 3

Health hazards

Skin irritation, category 2

Eye damage, category 1

Environmental hazards

Not adopted under OSHA paragraph (d)(1)(i) of §1910.1200

GHS Signal word: DANGER

GHS Hazard statement(s): Flammable liquid and vapor
Causes skin irritation
Causes serious eye damage

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GHS Hazard symbol(s):



GHS Precautionary statement(s):

Prevention:

- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Keep container tightly closed.
- Ground/Bond container and receiving equipment
- Use explosion-proof [electrical/ventilating/lighting] equipment.
- Use non-sparking tools.
- Take action to prevent static discharge.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

Response:

- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/[or shower].
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a poison center/doctor.
- Specific treatment (see sections 4 to 8 on this SDS and any further information on the label).
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use foam, powder, or carbon dioxide to extinguish.

Storage:

- Store in a well-ventilated place. Keep cool.

Disposal:

- Dispose of contents/container to an approved disposal site in accordance with local/regional/national/ international regulations

Describe any hazards not otherwise classified that have been identified during the classification process:

None known.

Percentage of ingredient(s) of unknown acute toxicity:

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Not applicable

SECTION 3: Composition/information on ingredients

Chemical name	CAS#	Concentration (weight %)
2-butoxyethanol	111-76-2	10 - 15%
Propan-2-ol	67-63-0	10 - 15%
Alkyl ether sulfate C12-14 with EO, sodium salt	68891-38-3	1 - 5%

The balance of the ingredients is not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200 (2024).

SECTION 4: First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Seek medical advice.

Skin contact: Remove contaminated clothing. Wash with water and soap and rinse thoroughly. Seek medical advice if irritation or pain develops.

Eye contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Ingestion: Do NOT induce vomiting. If swallowed, wash mouth out with water provided the person is conscious. Follow with plenty of water. NEVER GIVE LIQUIDS TO AN UNCONCIOUS PERSON. Call a physician.

Most important symptoms/effects, acute and delayed:

Causes skin irritation. Causes serious eye damage.

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

If any symptoms are observed, contact a physician and give them this SDS sheet. Treat symptomatically.

SECTION 5: Fire-fighting measures

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Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Use foam, powder, or carbon dioxide to extinguish **Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

FLAMMABLE: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers.

Runoff to sewer may create fire or explosion hazard. Containers may explode when heated.

Many liquids are lighter than water.

Hazardous combustion products may include the following substances: Carbon monoxide, carbon dioxide and sulfur oxides.

Special protective equipment and precautions for fire-fighters:

Use water spray or fog for cooling exposed containers. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate all non-emergency personnel from area. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities.

Methods and material for containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to

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containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibles:

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

For all ingredients or constituents listed in Section 3, the OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit or range used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Substance	OSHA PEL	ACGIH TLV	NIOSH
2-butoxyethanol	50 ppm, 240 mg/m3 TWA	20 ppm TWA	5 ppm, 24 mg/m3 TWA
Propan-2-ol	400 ppm, 980 mg/m3 TWA	200 ppm TWA 400 ppm STEL	400 ppm, 980 mg/m3 TWA 500 ppm, 1225 mg/m3 STEL
Alkyl ether sulfate C12-14 with EO, sodium salt	None known	None known	None known

Appropriate engineering controls:

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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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses, safety glasses with side shields or safety goggles. Use equipment for eye protection tested and approved under NIOSH standards.

Skin and hand protection: Chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical resistant apron.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a chemical respirator with organic vapor cartridge and full facepiece. Use respirators and components tested and approved under appropriate government standards such as NIOSH).

General hygiene considerations: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

Physical state:	Liquid.
Color:	Clear blue
Odor (includes odor threshold):	Alcohol
Melting point/freezing point:	Not determined
Boiling point (or initial boiling point or boiling range):	98 °C
Flammability:	Flammable liquid
Lower and upper explosion limit/flammability limit:	
Lower limit (%):	Not determined
Upper limit (%):	Not determined

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Flash point:	39.5 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
pH:	7.5
Kinematic viscosity:	Not determined
Solubility:	Easily soluble in water, methanol (50% and more), Partially soluble in acetone (1 - 10%)
Partition coefficient n-octanol/water (log value):	Not determined
Vapor pressure (includes evaporation rate):	Not determined
Density and/or relative density:	0.92
Relative vapor density:	Not determined
Particle characteristic:	Not determined
Volatile Organic Compound (VOC):	24%

SECTION 10: Stability and reactivity

Reactivity:	Flammable liquid.
Chemical stability:	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions, including those associated with foreseeable emergencies:	Hazardous reactions not anticipated under recommended storage and handling conditions.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	No decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation:	None expected.
Ingestion:	May be harmful if swallowed.
Skin:	Causes skin irritation.
Eyes:	Causes serious eye damage.
Target Organs:	Skin, Eyes

Symptoms related to the physical, chemical, and toxicological characteristics:

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Causes skin irritation. Causes serious eye damage.

Delayed and immediate effects and also chronic effects from short or long-term exposure:

No additional information available

Numerical measures of toxicity (such as acute toxicity estimates):

Acute toxicity: Does not meet the criteria for classification.

Substance	Test Type (species)	Value
2-butoxyethanol	LD ₅₀ Oral (Guinea pig)	1414 mg/kg
	LD ₀ Dermal (Guinea pig)	> 2000 mg/kg
	LC ₀ Inhalation (Guinea pig)	>3.1mg/L 1h
Propan-2-ol	LD ₅₀ Oral (Rat)	5.84 g/kg
	LD ₅₀ Dermal (Rabbit)	16.4 mL/kg
	LC ₅₀ Inhalation (Rat)	5000 ppm 6h
Alkyl ether sulfate C12-14 with EO, sodium salt	LD ₅₀ Oral (Rat)	4100 mg/kg
	LD ₅₀ Dermal (Rat)	> 2000 mg/kg
	LC ₅₀ Inhalation (Rat)	None known

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/eye irritation:	Causes severe eye damage
Respiratory sensitization:	Does not meet the criteria for classification
Skin sensitization:	Does not meet the criteria for classification
Germ cell mutagenicity:	Does not meet the criteria for classification
Carcinogenicity:	Does not meet the criteria for classification.
Reproductive toxicity:	Does not meet the criteria for classification.
Specific target organ toxicity- Single exposure:	Does not meet the criteria for classification.
Specific target organ toxicity- Repeat exposure:	Does not meet the criteria for classification
Aspiration hazard:	Does not meet the criteria for classification.
Interactive effects:	None known

Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

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Component	IARC	NTP	ACGIH	OSHA
2-butoxyethanol	Not Listed	Not Listed	Not Listed	Not Listed
Propan-2-ol	A4 - Not Classifiable as a Human carcinogen	Not Listed	Not Listed	Not Listed
Alkyl ether sulfate C12-14 with EO, sodium salt	Not Listed	Not Listed	Not Listed	Not Listed

SECTION 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Harmful to aquatic life with long lasting effects.

Substance	Test Type	Species	Value
2-butoxyethanol	LC ₅₀	Fish Oncorhynchus mykiss	1474 mg/L 96h
	EC ₅₀	Aquatic Invertebrates - Daphnia magna	690 mg/L 48h
	EC ₅₀	Algae Pseudokirchneriella subcapitata	623 mg/L 96h
Propan-2-ol	LC ₅₀	Fish Pimephales promelas	> 10,000 mg/L 96h
	EC ₅₀	Aquatic Invertebrates - Daphnia magna	> 10,000 mg/L 48h
	EC ₅₀	Algae Scenedesmus quadricauda	1800 mg/L 7d
Alkyl ether sulfate C12-14 with EO, sodium salt	LC ₅₀	Fish Danio rerio	7.1 mg/L 96h
	IC ₅₀	Aquatic Invertebrates - Daphnia magna	7.4 mg/L 48h
	EC ₅₀	Algae Desmodesmus subspicatus	27.7 mg/L 72h

Persistence and Degradability:

No data available for this product

Bioaccumulative Potential:

No data available for this product

Mobility in Soil:

No data available for this product

Other adverse effects (such as hazardous to the ozone layer):

Harmful to aquatic life with long lasting effects.

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SECTION 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Product

Dispose of waste materials in accordance with applicable local and national laws and regulations. Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of as unused product.

SECTION 14: Transport Information

UN number: UN 1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains Propan-2-ol)
Transport hazard class(es): 3
Packing group, if applicable: III

Environmental hazards

Marine pollutant: No

Transport in bulk (according to IMO instruments)

No further relevant information available.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

None known

SECTION 15: Regulatory Information

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is classified as hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All components are listed on the TSCA inventory.

CERCLA RQ (lbs) Ingredients (> 0.1%):

None of the components are listed

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311, 312 and 313: Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) (> 0.1%):

None of the components are listed

Section 311/312 (40 CFR 370) (> 0.1%):

Flammable (gases, aerosols, liquids or solids)

Skin corrosion or irritation

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Serious eye damage or eye irritation

Section 313 Toxic Release Inventory (40 CFR 372) (> 0.1%):

Chemical	CAS No	
Propan-2-ol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

STATE REGULATIONS:

This SDS contains specific health and safety data that is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986:

None of the components are listed

Massachusetts Right to Know:

None of the components are listed

New Jersey Right to Know:

Propan-2-ol and 2-butoxyethanol are listed

Pennsylvania Right to Know:

Propan-2-ol and 2-butoxyethanol are listed

SECTION 16: Other Information

Revision Date: February 15, 2025

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.