



# Safety Data Sheet

Issue date 28-Oct-2014

Version 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product Identifier

**Product name** C-CLEAR GLASS CLEANER  
**Chemical name** 7-8208

### Other means of identification

**Product code** FG 431-2531-3  
**Synonyms** Glass Cleaner

### Recommended use of the chemical and restrictions on use

**Recommended Use** Glass surfaces.  
**Uses advised against** DO NOT USE ON FLOORS

### Details of the supplier of the safety data sheet

<b>Supplier Address</b>	<b>Manufacturer Address</b>
Four State Maintenance Supply 503	Chase Products Co.
North Cline Road - Coffeyville, Kansas	2727 Gardner Road
67337 (800) 497-5707	Broadview, IL 60155
	708-273-1121

### Emergency Telephone Number

**Company Phone Number** 708-865-1000  
**24 Hour Emergency Phone Number** 1-800-255-3924  
**Emergency telephone** ChemTel 1-800-255-3924

## 2. Hazards Identification

### Classification

FLAMMABLE AEROSOLS	Category 1
Gases Under Pressure	liquefied gas

### Label Elements

#### EMERGENCY OVERVIEW

#### DANGER

EXTREMELY FLAMMABLE AEROSOL  
Contains gas under pressure; may explode if heated



The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Clear, light yellow liquid      **Physical State** Aerosol      **Odor** Perfumed.

## FG 431-2531-3 C-CLEAR GLASS CLEANER

### Precautionary Statements - Prevention

Keep away from heat, sparks, open flames and hot surfaces. — No smoking  
Pressurized container: Do not pierce or burn, even after use  
Do not spray on an open flame or other ignition source

### Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place  
Do not expose to temperatures exceeding 50°C (122 °F)

### Hazards not otherwise classified (HNOC)

#### Other Information

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## 3. Composition/information on Ingredients

<b>Common Name</b>	Glass Cleaner.
<b>Synonyms</b>	Glass Cleaner.
<b>Chemical Family</b>	MIXTURES.
<b>Formula</b>	7-8208
<b>Chemical nature</b>	Aqueous solution of organic solvent.

Chemical name	CAS No	weight-%	Trade secret
Water	7732-18-5	85-90	*
N-Butane	106-97-8	1-5	*
Ethanol	64-17-5	1-5	*
2-Butoxyethanol	111-76-2	1-5	*
Propane	74-98-6	1-5	*

Chemical Additions Hazardous components according to OSHA, are listed when present at 1% or greater. Carcinogenes are listed when present at 0.1% or greater.

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First aid measures

### FIRST AID MEASURES

**Eye Contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**inhalation** If overcome by vapor, move person to fresh air. Restore respiration if necessary. Get medical attention if injury develops.

**INGESTION** Ingestion from an aerosol product is unlikely to occur.

### Most important symptoms and effects, both acute and delayed

**Symptoms** Acute, Deliberate inhalation of concentrated vapor or mist may cause headaches. Prolonged and repeated contact with the eyes may cause mild irritation. Chronic: 2-butoxyethanol may cause hemolysis of the blood cells leading to possible liver and kidney damage.

### Indication of any immediate medical attention and special treatment needed

**Note to physicians** None needed.

**5. Fire-fighting measures**

**Suitable extinguishing media**

Dry chemical, CO2 or water spray.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

This product is under pressure. Water spray may be used to cool cans in the vicinity of fire or excessive heat to prevent the explosion of the cans.

**Hazardous combustion products** Thermal decomposition may release carbon monoxide and carbon dioxide.

**Explosion data**

**Sensitivity to Mechanical Impact** Contents under pressure, keep away from heat and open flame.

**Sensitivity to Static Discharge** Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use with adequate general or local exhaust ventilation.

**For emergency responders** Remove all sources of ignition.

**Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

**Methods for cleaning up** Clean contaminated surface thoroughly.

**7. Handling and Storage**

**Precautions for safe handling**

**Advice on safe handling** Do not deliberately inhale vapor or spray mist. Avoid getting spray into eyes.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store in a cool, dry place away from heat and open flame. Keep out of reach of children. **AEROSOL STORAGE LEVEL I (NFPA-30B) .**

**Incompatible Materials** Avoid heat, open flame and contact with strong oxidizers.

**8. Exposure Controls/Personal Protection**

**Control parameters**

**Exposure guidelines** See occupational exposure limits listed below.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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**FG 431-2531-3 C-CLEAR GLASS CLEANER**

N-Butane 106-97-8	STEL: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
Morpholine 110-91-8	TWA: 20 ppm S*	TWA: 20 ppm TWA: 70 mg/m <sup>3</sup> (vacated) TWA: 20 ppm (vacated) TWA: 70 mg/m <sup>3</sup> (vacated) STEL: 30 ppm (vacated) STEL: 105 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 1400 ppm TWA: 20 ppm TWA: 70 mg/m <sup>3</sup> STEL: 30 ppm STEL: 105 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering controls** Use with adequate general or local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Conventional eyeglasses to guard against splashing.

**Skin and Body Protection** Household type gloves, if desired.

**Respiratory protection** None required if used in a well-ventilated area .

**General hygiene considerations** Wash hands thoroughly after handling.

**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

<b>Physical State</b>	Aerosol	<b>Odor</b>	Perfumed.
<b>Appearance</b>	Clear, light yellow liquid	<b>Odor threshold</b>	No information available
<b>Color</b>	light yellow		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	10.40 - 11.2	No information available	
<b>Melting point/freezing point</b>	Not applicable	No information available	
<b>Boiling point/boiling range</b>	Water 212 °F/100 °C	No information available	
<b>Flash Point</b>	Not Available. This is an aerosol product for which Flame Projection is 2-3 inches, without flashback. Temperatures above 120 F may cause cans to burst.	No information available	
<b>Evaporation Rate</b>	Faster than butyl acetate	No information available	
<b>Flammability (solid, gas)</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>Upper flammability limits</b>	Not available		
<b>Lower Flammability Limit</b>	Not available		
<b>Vapor pressure</b>		No information available	
<b>Vapor Density</b>		No information available	



## FG 431-2531-3 C-CLEAR GLASS CLEANER

Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
N-Butane 106-97-8	-	-	= 658 g/m <sup>3</sup> ( Rat ) 4 h
Ethanol 64-17-5	= 7060 mg/kg ( Rat )	-	= 124.7 mg/L ( Rat ) 4 h
2-Butoxyethanol 111-76-2	= 470 mg/kg ( Rat )	= 99 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h
Propane 74-98-6	-	-	= 658 mg/L ( Rat ) 4 h

### Information on toxicological effects

**Symptoms** Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation after contact with skin. 2-Butoxyethanol penetrates skin readily. Frequent or wide spread contact may results on skin absorption of potentially harmful amounts.

**Serious eye damage/eye irritation** Can cause irritation after contact with the eyes.  
**corrosivity** Not applicable.

**sensitization** No a skin sensitizer.

**Germ Cell Mutagenicity** No information available.

**carcinogenicity** Not known chronic effects based on available data. None of the ingredients present in excess of 0.1% are listed as carcinogenic by NTP, IARC or OSHA.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration Hazard** Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

### Numerical measures of toxicity - Product Information

**Unknown acute toxicity** -

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 15571 mg/kg

**ATEmix (dermal)** 38869 mg/kg

**ATEmix (inhalation-gas)** 24622 mg/l

**ATEmix (inhalation-dust/mist)** 52.4 mg/l

**ATEmix (inhalation-vapor)** 2678 mg/l

## 12. Ecological Information

This product does not contain marine pollutants.

### ecotoxicity

6.17% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ethanol 64-17-5		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50

**FG 431-2531-3 C-CLEAR GLASS CLEANER**

2-Butoxyethanol 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
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**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical name	Partition coefficient
N-Butane 106-97-8	2.89
Ethanol 64-17-5	-0.32
2-Butoxyethanol 111-76-2	0.81
Propane 74-98-6	2.3

**Other adverse effects**

No information available

**13. Disposal Considerations**

**Waste treatment methods**

**Disposal of wastes**

Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging**

Pressurized container: Do not pierce or burn, even after use. Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.

Chemical name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable

**14. Transport Information**

**DOT**

**UN/ID no**

Limited quantity (LQ) Glass Cleaner

**Proper Shipping Name**

UN1950

**Hazard Class**

Limited quantity (LQ)

**Marine pollutant**

2.1

This product does not contain marine pollutants.

**15. Regulatory information**

**International Inventories**

**TSCA**

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**DSL**

All ingredients are listed or are excluded from listing on the DSL.

**Legend:**

**FG 431-2531-3 C-CLEAR GLASS CLEANER**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**SARA 313**

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372. This information must be included in all SDSs that are copied and distributed for this material.

Chemical name	CAS No	weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	111-76-2	1-5	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5			X
N-Butane 106-97-8	X	X	X
Ethanol 64-17-5	X	X	X
2-Butoxyethanol 111-76-2	X	X	X
Propane 74-98-6	X	X	X

**U.S. EPA Label information**

EPA Pesticide registration number Not applicable

**16. Other information**

<b><u>NFPA</u></b>	<b>Health Hazards 1</b>	<b>Flammability 1</b>	<b>Instability 1</b>	<b>Physical and chemical properties</b> Not applicable <b>Personal Protection</b> B - Eyes and hands protection
<b><u>HMIS</u></b>	<b>Health Hazards 1</b>	<b>Flammability 2</b>	<b>Physical Hazards 1</b>	

Issue date 28-Oct-2014



**Revision note**

This SDS supersedes a previous MSDS dated August 20, 2013.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**