



Issue date 13-Aug-2015

# Safety Data Sheet

Version 1

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

### Product Identifier

**Product name** BOHLE BRITE SHEEN PLUS + GLASS CLEANER  
**Chemical name** 7-4683-1

### Other means of identification

**Product code** FG 449-2195-2  
**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>
Bohle America, Inc.	Chase Products Co.
10924 Granite Street	2727 Gardner Road
Suite 200	Broadview, IL 60155
Charlotte, NC 28273	708-273-1121

### Emergency Telephone Number

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

## 2. Hazards Identification

### Classification

Acute toxicity - Inhalation (Gases)	Category 4
Serious eye damage/eye irritation	Category 2
FLAMMABLE AEROSOLS	Category 2
Gases Under Pressure	liquefied gas

### Label Elements

### EMERGENCY OVERVIEW

#### Warning

#### hazard statements

HARMFUL IF INHALED  
Causes serious eye irritation  
Flammable Aerosol  
Contains gas under pressure; may explode if heated



**Appearance** Clear liquid that will be aerosolized.

**Physical State** Aerosol

**Odor** Perfumed.

**Precautionary Statements - Prevention**

Avoid breathing fumes, mist, vapors or spray.  
 Use only outdoors or in a well-ventilated area  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves, protective clothing, eye protection and face protection.  
 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 - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor if you feel unwell

**Precautionary Statements - Storage**

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

**Hazards not otherwise classified (HNOC)**

**Other Information**

0.63% of the mixture consists of ingredient(s) of unknown toxicity

**3. Composition/information on Ingredients**

**Common Name** Glass Cleaner.  
**Synonyms** Glass Cleaner.  
**Chemical Family** MIXTURES.  
**Formula** 7-4683-1  
**Chemical nature** Aqueous solution of organic solvent.

Chemical name	CAS No	weight-%	Trade secret
Water	7732-18-5	85-90	*
2-Butoxyethanol	111-76-2	5-10	*
N-Butane	106-97-8	1-5	*
Diacetone alcohol	123-42-2	1-5	*

Chemical Additions Hazardous components according to OSHA, are listed when present at 1% or greater. Carcinoges 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
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>
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>
Diacetone alcohol 123-42-2	TWA: 50 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 240 mg/m <sup>3</sup>	IDLH: 1800 ppm TWA: 50 ppm TWA: 240 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>

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 liquid that will be aerosolized.	<b>Odor threshold</b>	No information available
<b>Color</b>	clear		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	10.6	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 0 inches. 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
<b>Relative Density</b>	1.00 concentrate	No information available
<b>Water solubility</b>		Soluble in water
<b>Solubility in other solvents</b>		No information available
<b>Partition coefficient</b>		No information available
<b>Autoignition Temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Kinematic viscosity</b>		No information available
<b>Dynamic viscosity</b>		No information available
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content (%)</b>	9.98%
<b>Density</b>	8.33 lb/gal
<b>Bulk Density</b>	No information available

**10. Stability and Reactivity**

**Reactivity**  
Not applicable

**Chemical stability**

Stable.  
**Possibility of hazardous reactions**  
Temperatures above 130 °F may cause cans to burst with force.

**hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid**

Temperatures above 122 °F (50 °C).

**Incompatible Materials**

Avoid heat, open flame and contact with strong oxidizers.

**Hazardous decomposition products**

Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

**11. Toxicological Information**

**Information on likely routes of exposure**

<b>Product Information</b>	Primary routes of entry: Eye contact, skin contact, inhalation, ingestion (possible, but consider unlikely).
<b>inhalation</b>	Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.
<b>Eye Contact</b>	Can cause irritation after contact with eyes.
<b>Skin contact</b>	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.
<b>INGESTION</b>	This is an aerosol product, ingestion is unlikely to occur. 2-Butoxyethanol may cause red blood cell hemolysis and possible liver and kidney damage.

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Water	> 90 mL/kg ( Rat )	-	-
7732-18-5			
2-Butoxyethanol	= 470 mg/kg ( Rat )	= 99 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h

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111-76-2			
N-Butane 106-97-8	-	-	= 658 g/m <sup>3</sup> ( Rat ) 4 h
Diacetone alcohol 123-42-2	= 4 g/kg ( Rat )	= 13500 mg/kg ( Rabbit )	-

**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** 0.63% of the mixture consists of ingredient(s) of unknown toxicity

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

<b>ATEmix (oral)</b>	12113 mg/kg
<b>ATEmix (dermal)</b>	28351 mg/kg
<b>ATEmix (inhalation-gas)</b>	18017 mg/l
<b>ATEmix (inhalation-dust/mist)</b>	38.7 mg/l
<b>ATEmix (inhalation-vapor)</b>	8465 mg/l

**12. Ecological Information**

This product does not contain marine pollutants.

**ecotoxicity**

3.63% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
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
Diacetone alcohol 123-42-2		420: 96 h Lepomis macrochirus mg/L LC50 static 420: 96 h Lepomis macrochirus mg/L LC50		8750: 24 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**FG 449-2195-2 BOHLE BRITE SHEEN PLUS + GLASS CLEANER**

Chemical name	Partition coefficient
2-Butoxyethanol 111-76-2	0.81
N-Butane 106-97-8	2.89
Diacetone alcohol 123-42-2	1.03

**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.

**14. Transport Information**

**DOT** Limited quantity (LQ) General purpose cleaner  
**UN/ID no** UN1950  
**Proper Shipping Name** Limited quantity (LQ)  
**Hazard Class** 2.1  
**Marine pollutant** 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:**

*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	5-10	1.0

**SARA 311/312 Hazard Categories**

**FG 449-2195-2 BOHLE BRITE SHEEN PLUS + GLASS CLEANER**

**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
2-Butoxyethanol 111-76-2	X	X	X
N-Butane 106-97-8	X	X	X
Diacetone alcohol 123-42-2	X	X	X

**U.S. EPA Label information**

EPA Pesticide registration number Not applicable

**16. Other information**

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

Prepared by Regulatory Department  
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Revision note

This SDS supersedes a previous MSDS dated May 07, 2009.

**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**