

SAFETY DATA SHEET

Date Issued : 06/26/2018

SDS No : Bortek_Crystal

Crystal Non-Ammoniated Glass Cleaner

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Crystal Non-Ammoniated Glass Cleaner

GENERAL USE: Indoor and outdoor glass cleaner

PRODUCT DESCRIPTION: Concentrated Non-Ammoniated Glass Cleaner

CHEMICAL FAMILY: Solvent/detergent blend

DISTRIBUTOR

Bortek Industries, Inc.

4713 Gettysburg Road

Mechanicsburg, PA 17055

Customer Service: 7177377162

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEM-TEL (Medical and Transportation): 800-255-3924

POISON CONTROL CENTER (Medical): 800-222-1222

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Irritation, Category 2A

Acute Toxicity (Oral), Category 4

Skin Irritation, Category 2

Physical:

Flammable Liquids, Category 3

GHS LABEL



Exclamation
mark



Flame

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H302: Harmful if swallowed.

H333: May be harmful if inhaled.

H336: May cause drowsiness or dizziness.

H226: Flammable liquid and vapour.

PRECAUTIONARY STATEMENT(S)

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P261: Avoid breathing fume, gas, mist, vapors, or spray.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating, lighting equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P273: Avoid release to the environment.

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

Response:

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor/physician.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362: Take off contaminated clothing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P370+P378: In case of fire: Use dry chemical, foam or water mist to extinguish.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Disposal:

P501: Dispose of contents/container according to all local, state and Federal regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Blue liquid

IMMEDIATE CONCERNS: Eye & Skin irritant

POTENTIAL HEALTH EFFECTS

EYES: Irritating, and may injure eye tissue if not removed promptly.

SKIN: Contact may cause moderate to severe irritation.

SKIN ABSORPTION: Harmful if absorbed through skin.

INGESTION: Harmful if swallowed.

INHALATION: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches)

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS: No listed substance

CARCINOGENICITY: Not Established

MUTAGENICITY: No listed substance

ROUTES OF ENTRY: Eye, skin, ingestion, Inhalation.

TARGET ORGAN STATEMENT: Blood, kidney, liver, Central nervous system

CANCER STATEMENT: None

WARNING CAUTION LABELS: Irritant

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Ethylene glycol butyl ether	10 - 15	111-76-2
Monoethanolamine	0 - 3	141-43-5
Isopropanol	2 - 5	67-63-0
Sodium Lauryl Sulfate	0 - 1	151-21-3
Dye	< 0.2	N/A
Water	60 - 70	7732-18-5

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

SKIN: Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe burning sensation, tearing, redness, swelling.

SKIN: Contact causes skin irritation.

INGESTION: Irritation of mouth, throat, along with stomach upset, vomiting.

INHALATION: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

ACUTE EFFECTS: Severely irritating to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

CHRONIC EFFECTS: Not Established

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: II (100-140F)

GENERAL HAZARD: Combustible Liquid

EXTINGUISHING MEDIA: Use Dry chemical, carbon dioxide, or water spray when fighting fires involving this material.
HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide from combustion
EXPLOSION HAZARDS: Fire exposed containers may burst due to increased pressure from heat.
FIRE FIGHTING PROCEDURES: Use an extinguishing agent suitable for surrounding fire.
FIRE FIGHTING EQUIPMENT: No special requirements.
SENSITIVE TO STATIC DISCHARGE: Yes
HAZARDOUS DECOMPOSITION PRODUCTS: Not Established

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.
LARGE SPILL: Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.
ENVIRONMENTAL PRECAUTIONS
WATER SPILL: Avoid discharges into open waterways.
LAND SPILL: Avoid discharge to soil.
AIR SPILL: NA = Not Applicable
GENERAL PROCEDURES: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.
RELEASE NOTES: Eliminate all ignition sources. Ventilate area well.
SPECIAL PROTECTIVE EQUIPMENT: Eye protection, rubber gloves, rubber boots to protect feet.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Close container after use.
HANDLING: Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.
STORAGE: Store in closed container away from heat, spark or open flame.
STORAGE TEMPERATURE: (40°F) Minimum to (110°F) Maximum
STORAGE PRESSURE: Store at ambient atmospheric pressure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
Ethylene glycol butyl ether	OSHA PEL	TWA	50	240
	ACGIH TLV	TWA	20	97
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Monoethanolamine	OSHA PEL	TWA	3	6
	ACGIH TLV	TWA	3	7.5
		STEL	6	15
	Supplier OEL	TWA	NL	NL
STEL		NL	NL	
Isopropanol	OSHA PEL	TWA	400	980
	ACGIH TLV	TWA	200	490
		STEL	400	960
	Supplier OEL	TWA	NL	NL
STEL		NL	NL	

ENGINEERING CONTROLS: Use in well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and full face-shield.
SKIN: Rubber or other chemical resistant gloves.
RESPIRATORY: A respirator is not needed under normal and intended conditions of product use.

WORK HYGIENIC PRACTICES: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Solvent, characteristic
ODOR THRESHOLD: Not Established
COLOR: Blue
pH: 11.0 to 12.0
PERCENT VOLATILE: >98
FLASH POINT AND METHOD: 57.78°C (136°F) Tag Closed Cup (TCC)
FLAMMABLE LIMITS: 4.0 to 10.6
AUTOIGNITION TEMPERATURE: Not Established
VAPOR PRESSURE: ~ 1.2 kPa at 25°C (77°F)
VAPOR DENSITY: ~ 4 Air = 1
BOILING POINT: 212° F; 100° C
FREEZING POINT: 32° F; 0° C
THERMAL DECOMPOSITION: Not Available
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: (Water =1) <1.0
DENSITY: 8.12 at 20°C (68°F)
SPECIFIC GRAVITY: ~ 0.973 grams/ml.
VISCOSITY: Water thin.
(VOC): 20.41 % by weight

10. STABILITY AND REACTIVITY

REACTIVITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
STABILITY: Stable under normal storage and use conditions.
CONDITIONS TO AVOID: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
INCOMPATIBLE MATERIALS: Strong acids, oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Ethylene glycol butyl ether	1300 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 3.1 mg/l
Monoethanolamine	1089 mg/kg (rat)	2504 mg/kg (rabbit)	~ 1.48 mg/l
Isopropanol	5045 mg/kg (rat)	12800 mg/kg (rabbit)	16000 ppm
Sodium Lauryl Sulfate	1200 mg/kg (rat)	> 2000 to 20000 mg/kg (rabbit)	> 3900 mg/m ³ (rat)

DERMAL LD₅₀: > 2000 mg/kg guinea pig

ORAL LD₅₀: ~ 1300 mg/kg Male and Female rats.

INHALATION LC₅₀: Not Established

SKIN CORROSION/IRRITATION: No data available. Contact Env. Dept.

SERIOUS EYE DAMAGE/IRRITATION: Irritant

RESPIRATORY OR SKIN SENSITISATION: No products were found.

GERM CELL MUTAGENICITY: No known significant effects or critical hazards.

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
Ethylene glycol butyl ether	No listed substance	Group 3 - Not classifiable as to its carcinogenicity to Humans	No listed substance

IARC: 3-Group 3: Not classifiable as to its carcinogenicity to humans.

REPRODUCTIVE TOXICITY: No known significant effects or critical hazards.

STOT-SINGLE EXPOSURE: May cause damage to blood, Kidney, liver with prolonged or repeated exposure to high concentrations of vapors.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Established

ECOTOXICOLOGICAL INFORMATION: Not Available

AQUATIC TOXICITY (ACUTE): No known significant effects or critical hazards.

96-HOUR LC₅₀: Not Established

96-HOUR EC₅₀: Not Established

Notes: Not Established

CHEMICAL FATE INFORMATION: This product is biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. If discarded, this material and its containers should be treated as hazardous waste based on the characteristics of ignitability as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal into public sewer.

FOR LARGE SPILLS: Consult with local and state authorities for large volume disposal.

PRODUCT DISPOSAL: Small quantities (less than 1 gallon) of used material may be flushed to sanitary sewer with copious amounts of water. Larger quantities must be disposed of by a licensed disposal company.

EMPTY CONTAINER: Rinse container with clear water. Offer container for recycling, or dispose of in trash.

RCRA/EPA WASTE INFORMATION: Hazardous Waste

RCRA HAZARD CLASS: Ignitability

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Compound, Cleaning Liquid

TECHNICAL NAME: NA = Not Applicable

PRIMARY HAZARD CLASS/DIVISION: NA = Not Applicable

PLACARDS: NA = Not Applicable

LABEL: No special requirements.

OTHER SHIPPING INFORMATION: Under 49 CFR 173.150(f), this product has been reclassified as a Combustible Liquid and, as such, meets the requirements of Exceptions for Class 3 (flammable liquids) for domestic transportation by ground ONLY.

SPECIAL SHIPPING NOTES: None

AIR (ICAO/IATA)

SHIPPING NAME: Contact manufacturer for more information.

VESSEL (IMO/IMDG)

SHIPPING NAME: Contact manufacturer for more information.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Health - Acute

313 REPORTABLE INGREDIENTS: 2-butoxyethanol 111-76-2 (Category: N230 Certain Glycol Ethers)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Ethylene glycol butyl ether	10 - 15	111-76-2

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: No listed substance

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All ingredients are listed on the TSCA Chemical Inventory.

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Ethylene glycol butyl ether	Massachusetts Right to Know Substance Pennsylvania Right to Know Substance New Jersey Right To Know Substance
Monoethanolamine	Massachusetts Right to Know Substance New Jersey Right To Know Substance New York Right to Know Substance Pennsylvania Right to Know Substance
Isopropanol	Massachusetts Right to Know Substance New Jersey Right To Know Substance Pennsylvania Right to Know Substance
Sodium Lauryl Sulfate	New Jersey Right To Know Substance Pennsylvania Right to Know Substance

CALIFORNIA PROPOSITION 65: No listed substance

CARCINOGEN: Contains an ingredient listed under IARC Group 3.

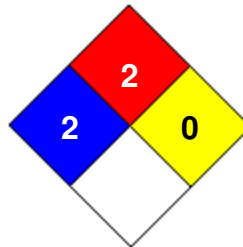
16. OTHER INFORMATION

Date Prepared: 06/26/2018

HMIS RATING

HEALTH	<input type="text" value=""/>	2
FLAMMABILITY	<input type="text" value=""/>	2
PHYSICAL HAZARD	<input type="text" value=""/>	0
PERSONAL PROTECTION	<input type="text" value=""/>	C

NFPA CODES



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