



Safety Data Sheet

XL-220 Glass Cleaner

SECTION 1: Identification

Product name	XL-220 Glass Cleaner Bio-Safe Glass & Surface Cleaner
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Surface cleaner. Glass cleaner.

Name	Socar Chemical, LLC
Address	2609 Rutherford Rd Greenville SC 29609 USA

Telephone (864) 244-5068
email cs@socarchemical.com

CHEMTREC 1(800) 424-9300
CCN695199

SECTION 2: Hazard identification

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

Not a hazardous substance or mixture.

Not a hazardous substance or mixture.

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Water (CAS no.: 7732-18-5; EC no.: 231-791-2) CLASSIFICATIONS: No data available. HAZARDS: No data available.	<= 68 % (weight)
Ethanol (CAS no.: 64-17-5; EC no.: 200-578-6; Index no.: 603-002-00-5) CLASSIFICATIONS: Flammable liquids, Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor.	>= 20 % (weight)
Ammonium hydroxide (10-35% NH3) (CAS no.: 1336-21-6; EC no.: 215-647-6; Index no.: 007-001-01-2) CLASSIFICATIONS: Skin corrosion/irritation, Cat. 1B; Hazardous to the aquatic environment, short-term (acute), Cat. 1. HAZARDS: H314 - Causes severe skin burns and eye damage; H400 - Very toxic to aquatic life. [SCLs/M-factors/ATEs]: STOT SE 3; H335: C ≥ 5 %	>= 10 % (weight)
Butoxyethanol (CAS no.: 111-76-2; EC no.: 203-905-0; Index no.: 603-014-00-0) CLASSIFICATIONS: Flammable liquids, Cat. 4; Acute toxicity, dermal, Cat. 4; Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 2; Eye damage/irritation, Cat. 2A. HAZARDS: H227 - Combustible liquid; H302 - Harmful if swallowed; H312 - Harmful in contact with skin; H315 - Causes skin irritation; H319 - Causes serious eye irritation; H332 - Harmful if inhaled. [SCLs/M-factors/ATEs]: Oral: ATE = 1200 mg/kg	>= 2 % (weight)

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Flush eyes with water as a precaution.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

No data available

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

No data available

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical

Ethanol: Carbon oxides

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Environmental precautions

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of in accordance with local and national regulations. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store in a well ventilated place. Keep container tightly closed. Store between the following temperatures: 40 and 120 Fahrenheit and out of direct sunlight and away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of reach of children.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Ethanol (CAS: 64-17-5)

PEL (Inhalation): 1000 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 1900 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 1000 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 1000 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

TWA (Inhalation): 1000 ppm; 1880 mg/m³; Australia (AU/SWA)

2. Butoxyethanol (CAS: 111-76-2 EC: 203-905-0)

PEL (Inhalation): 50 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 240 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 20 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

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PEL (Inhalation): 20 ppm, 97 mg/m³
California permissible exposure limits for chemical contaminants
(Title 8, Article 107)/Skin

TWA (Inhalation): 50 ppm, 240 mg/m³; USA (OSHA)
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
Contaminants/Skin designation
The value in mg/m³ is approximate

TWA (Inhalation): 5 ppm, 24 mg/m³; USA (NIOSH)
USA. NIOSH Recommended Exposure Limits/Potential for dermal absorption

TWA (Inhalation): 20 ppm; 96.9 mg/m³; Australia (AU/SWA)
Other advisory: Sk

STEL (Inhalation): 50 ppm; 242 mg/m³; Australia (AU/SWA)
Other advisory: Sk

Appropriate engineering controls

None required with normal household use. Industrial Setting: Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Eye/Face Protection: None required with normal household use.
Industrial Setting: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin protection

Distribution, Workplace and Household Settings: No special protective equipment required.
Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Protective gloves.

Respiratory protection

Distribution, Workplace and Household Settings: No special protective equipment required.

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of insufficient ventilation wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	Clear
Odor	Slight ammonia odor
Odor threshold	Slight
Melting point/freezing point	32°F
Boiling point or initial boiling point and boiling range	212°F
Flammability	Not available
Lower and upper explosion limit/flammability limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	7.0

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Kinematic viscosity	Not available
Solubility	100%
Partition coefficient n-octanol/water (log value)	Not available
Vapor pressure	Not available
Evaporation rate	Not available
Density and/or relative density	Not available
Relative vapor density	Not available

Particle characteristics

Not available

Supplemental information regarding physical hazard classes

Not applicable

Further safety characteristics (supplemental)

Not applicable

SECTION 10: Stability and reactivity

Reactivity

None under normal use conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal use conditions.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Hazardous decomposition products

Water: In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ethanol: ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.

2-Butoxyethanol

LD50 Oral - Rat - 880 mg/kg

Remarks: OECD Test Guideline 401

2-Butoxyethanol
LD50 Skin - Rabbit - 1,060 mg/kg
Remarks: OECD Test Guideline 402

2-Butoxyethanol
LD50 Intraperitoneal - Rat - 220 mg/kg

2-Butoxyethanol
LD50 Intravenous - Rat - 307 mg/kg

ETHANOL
LD50 Oral - Rat - 10,470 mg/kg

ETHANOL
LD50 Skin - Rabbit - 15,800 mg/kg

ETHANOL
LD50 Inhalation - Rat - 30,000 mg/l - 4 h

Skin corrosion/irritation

ETHANOL
OECD Test Guideline 404 Skin - Rabbit - 24 h
Result: No skin irritation

Serious eye damage/irritation

ETHANOL
OECD Test Guideline 405 Eyes - Rabbit
Result: Moderate eye irritation

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

No data available

Carcinogenicity

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Based on available data, classification data are not met

Specific target organ toxicity (STOT) - single exposure

Based on available data, classification data are not met

Specific target organ toxicity (STOT) - repeated exposure

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Based on available data, classification data are not met

Aspiration hazard

Based on available data, classification data are not met

Additional information

Ethanol: Stomach - Irregularities - Based on Human Evidence

Ammonium hydroxide (10-35% NH₃): From NIH:

cat LDLo oral 750mg/kg (750 mg/kg) "Abdernalden's Handbuch der Biologischen Arbeitsmethoden." Vol. 4, Pg. 1289, 1935.

frog LDLo parenteral 2500mg/kg (2500 mg/kg) "Structure et Activite Pharmacodynamique des Medicaments du Systeme Nerveux Vegetatif," Bovet, D., and F. Bovet-Nitti, New York, S. Karger, 1948Vol. -, Pg. 688, 1948.

human LCLo inhalation 5000ppm (5000 mg/kg) "Toxicology of Drugs and Chemicals," Deichmann, W.B., New York, Academic Press, Inc., 1969Vol. -, Pg. 95, 1969.

human LDLo oral 43mg/kg (43 mg/kg) "Toxicology of Drugs and Chemicals," Deichmann, W.B., New York, Academic Press, Inc., 1969Vol. -, Pg. 95, 1969.

human TCLo inhalation 408ppm (408 mg/kg) LUNGS, THORAX, OR RESPIRATION: "FIBROSIS, FOCAL (PNEUMOCONIOSIS)"

LUNGS, THORAX, OR RESPIRATION: ACUTE PULMONARY EDEMA Journal of the Iowa State Medical Society. Vol. 61, Pg. 271, 1971.

mouse LD50 intravenous 91mg/kg (91 mg/kg) BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD

BEHAVIORAL: COMA

LUNGS, THORAX, OR RESPIRATION: RESPIRATORY STIMULATION Journal of Clinical Investigation. Vol. 37, Pg. 497, 1958.

mouse LDLo subcutaneous 160mg/kg (160 mg/kg) "Structure et Activite Pharmacodynamique des Medicaments du Systeme Nerveux Vegetatif," Bovet, D., and F. Bovet-Nitti, New York, S. Karger, 1948Vol. -, Pg. 688, 1948.

rabbit LDLo intravenous 10mg/kg (10 mg/kg) "Abdernalden's Handbuch der Biologischen Arbeitsmethoden." Vol. 4, Pg. 1289, 1935.

rabbit LDLo subcutaneous 200mg/kg (200 mg/kg) "Structure et Activite Pharmacodynamique des Medicaments du Systeme Nerveux Vegetatif," Bovet, D., and F. Bovet-Nitti, New York, S. Karger, 1948Vol. -, Pg. 688, 1948.

rat LD50 oral 350mg/kg (350 mg/kg) GASTROINTESTINAL: OTHER CHANGES

LIVER: OTHER CHANGES

KIDNEY, URETER, AND BLADDER: OTHER CHANGES Journal of Industrial Hygiene and Toxicology. Vol. 23, Pg. 259, 1941

Butoxyethanol: *TOXICITY:

typ. dose mode specie amount units other

TCLo ihl hmh 195 ppm/8H

LD50 orl rat 1480 mg/kg

LC50 ihl rat 450 ppm/4H

LD50 ipr rat 220 mg/kg

LD50 ivn rat 340 mg/kg

LD50 orl mus 1230 mg/kg

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LC50 ihl mus 700 ppm/7H
LD50 ipr mus 536 mg/kg
LDLo scu mus 500 mg/kg
LD50 ivn mus 1130 mg/kg
LD50 orl rbt 320 mg/kg
LD50 skn rbt 490 mg/kg
LD50 ivn rbt 280 mg/kg
LD50 orl gpg 1200 mg/kg
LD50 skn gpg 230 mg/kg
LD50 ipr rbt 220 mg/kg

*AQTX/TLM96: 1000-100 ppm

*SAX TOXICITY EVALUATION:

THR = HIGH human irritant via inhalation. HIGH via intravenous, oral and dermal routes. MODERATE via oral, intraperitoneal, inhalation, subcutaneous and dermal routes. MILD skin and eye irritant.

*CARCINOGENICITY: Not available

*MUTATION DATA:

test lowest dose | test lowest dose

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Not available |

*TERATOGENICITY:

Reproductive Effects Data:

TCLo: ihl-rat 200 ppm/6H (6-15D preg)

TCLo: ihl-rat 25 ppm/6H (6-15D preg)

TDLo: orl-mus 9440 mg/kg (7-14D preg)

TCLo: ihl-rbt 200 ppm/6H (6-18D preg)

TCLo: ihl-rbt 100 ppm/6H (6-18D preg)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 50 ppm (skin) [610]

Final Limit: PEL-TWA 25 ppm (skin) [610]

ACGIH: TLV-TWA 25 ppm (skin) [610]

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): 2

Flammability (F): 2

Reactivity (R): 0

H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).

F2: Materials which must be moderately heated before ignition will occur (see NFPA for details).

R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

skn-rbt 500 mg open MLD

eye-rbt 18 mg

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Standards and Regulations: DOT-IMO: Poison B; Label: St. Andrew's Cross,
Flammable liquid
Status: "NIOSH Manual of Analytical Methods, 3rd. Ed."
Reported in EPA TSCA Inventory, 1983
EPA TSCA Section 8(e) Status Report 8EHQ-0483-0475
Meets criteria for proposed OSHA Medical Records Rule

SECTION 12: Ecological information

Toxicity

No data available on product

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Non Household Setting: Products covered by this SDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is undiluted scrap product. Do not landfill. Household Use: Household product is safe for disposal down the drain during detergent use or in the trash. Dispose of empty bottle in the trash or recycle where facilities exist.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

WARNING! This product contains a chemical known to the State of California to cause cancer.

CAS-No. 64-17-5: Ethanol

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

CAS-No. 64-17-5: Ethanol

Canadian Domestic Substances List (DSL)

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Chemical name: Water
CAS: 7732-18-5

Chemical name: Ethanol
CAS: 64-17-5

Chemical name: Ammonium hydroxide ((NH₄)(OH))
CAS: 1336-21-6

Chemical name: Ethanol, 2-butoxy-
CAS: 111-76-2

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Chemical name: Ethanol
CAS number: 64-17-5

Chemical name: Ammonium hydroxide
CAS number: 1336-21-6

Ethylene glycol monobutyl ether
CAS: 111-76-2

New Jersey Right To Know Components

Water
CAS-No. 7732-18-5

Common name: ETHYL ALCOHOL
CAS number: 64-17-5

Common name: AMMONIUM HYDROXIDE
CAS number: 1336-21-6

Ethylene glycol monobutyl ether
CAS: 111-76-2

Pennsylvania Right To Know Components

Water
CAS-No. 7732-18-5

Chemical name: Ethanol
CAS number: 64-17-5

Chemical name: Ammonium hydroxide
CAS number: 1336-21-6

Ethylene glycol monobutyl ether
CAS: 111-76-2

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 311/312 Hazards

No SARA Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The following components are subject to reporting levels established by SARA Title III, Section 313:

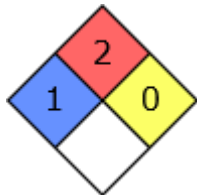
Ethylene glycol monobutyl ether

CAS: 111-76-2

HMIS Rating

XL-220 Glass Cleaner	
HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

NFPA Rating



SECTION 16: Other information

Date of last revision: March 2023

Further information/disclaimer

To the best of the knowledge of the preparer(s), the information contained herein is reliable and accurate as of this date. However, accuracy, suitability, or completeness is not guaranteed, and no warranties of any type - either express or implied are provided. The information contained herein relates only to this specific product.

Preparation information

SDS Prepared by: Andrew Snow