

AIKEN CHEMICAL COMPANY, INC.

Safety Data Sheet

SHIELD Glass Cleaner

SECTION 1: Identification

1.1 Product identifier

Product name	Glass Cleaner
Product number	8102
Brand	SHIELD

1.4 Supplier's details

Name	Aiken Chemical Company, Inc.
Address	P.O. Box 27147 Greenville, SC 29616 USA
Telephone	864-968-1250
Fax	864-968-1252
email	donnie@clean-rite.com

1.5 Emergency phone number(s)

800-424-9300

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

- Eye damage/irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2

2.2 GHS label elements, including precautionary statements.

Pictogram



Signal word

Warning

Hazard statement(s)

H315
H319

Causes skin irritation
Causes serious eye irritation

Precautionary statement(s)

P264
P302+P352
P305+P351+P338

P332+P313
P337+P313

Wash hands thoroughly after handling.
IF ON SKIN: Wash with plenty of water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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Hazardous components

1. Water

Concentration	90 - 99 % (weight)
CAS no.	7732-18-5

2. Ethylene glycol butyl ether

Concentration	0.5 - 1.5 % (weight)
CAS no.	111-76-2

- Flammable liquids, Cat. 4
- Acute toxicity, oral, Cat. 4
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A

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

3. 1,2-Propanediol

Concentration	1 - 5 % (weight)
EC no.	200-338-0
CAS no.	57-55-6

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician/doctor if necessary. Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Show this material safety data sheet to the doctor in attendance.
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	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.
Personal protective equipment for first-aid responders	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

4.2 Most important symptoms/effects, acute and delayed

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Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

Effects are dependent on exposure (dose, concentration, contact time). Effects are immediate and delayed. Symptoms may cause skin irritation and eye irritation. Review section 2 of SDS to see all potential hazards.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical

No data available.

5.3 Special protective actions for fire-fighters

Fire fighters should enter area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surfaces should be exposed.

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store in suitable labeled containers.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Isopropyl alcohol (CAS: 67-63-0)

PEL (Inhalation): 400 ppm (OSHA)

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

PEL (Inhalation): 400 ppm, (ST) 500 ppm (Cal/OSHA)

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

REL (Inhalation): 400 ppm, (ST) 500 ppm (NIOSH)

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

2. Ethylene glycol butyl ether (CAS: 111-76-2)

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

8.2 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.

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

Pictograms



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): Wear suitable protective clothing.

Body protection

Skin Protection: None required with normal household use. Industrial Setting: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.

Respiratory protection

No special precautions for casual exposure. Ventilation Local Exhaust: None required with normal consumer use. Special: None. Industrial (General): Normal/general dilution ventilation is acceptable. Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.

Thermal hazards

No data available.

Control banding approach

No data available.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

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Appearance/form (physical state, color, etc.)	Liquid
Odor	Characteristic
Odor threshold	No data available.
pH	7.5
Melting point/freezing point	0°C
Initial boiling point and boiling range	100°C
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	0.99
Relative density	0.99
Solubility(ies)	100% in water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

None under normal use conditions.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

All data is collected from supplier SDS's or historical data. Aiken Chemicals performs no animal testing.

LD50 Oral Rat 38421.37 mg/kg (Not Classified)

LC50 Inhalation Rat 4194.04 mg/l (Not Classified)

LD50 Dermal Rabbit 81745 mg/kg (Not Classified)

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Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

May cause Eye irritation

Respiratory or skin sensitization

not expected to cause skin sensitization

Germ cell mutagenicity

No ingredient/component of this mixture is classified

Carcinogenicity

No ingredient/component of this mixture is classified.

Reproductive toxicity

No ingredient/component of this mixture is classified.

STOT-single exposure

No ingredient/component of this mixture is classified.

STOT-repeated exposure

No ingredient/component of this mixture is classified.

Aspiration hazard

No ingredient/component of this mixture is classified.

SECTION 12: Ecological information

Toxicity

All data is collected from supplier SDS's or historical data. Aiken Chemicals performs no animal testing.

Fish: 4744.5 mg/l (not classified)

Daphnia magna: 7928.7 mg/l (not classified)

algae: 37055.9 mg/l (not classified)

Persistence and degradability

98.9925% of components are readily biodegradable

1.0075% of components have no data

Bioaccumulative potential

0.00% of components will bioaccumulate.

0.0012% of components will not bioaccumulate

99.9989% of components have no data

Mobility in soil

0.000% of components have mobility in soil.

0.000% of components have no mobility in soil.

100.00% of components have no data.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

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Dispose in accordance with all applicable federal, state, and local regulation. Contact your federal, state, and local authorities for specific rules.

Disposal of contaminated packaging

Dispose of as unused product.

Waste treatment

No data available.

Sewage disposal

No data available.

Other disposal recommendations

No data available.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

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

2-Butoxyethanol CAS-No. 111-76-2

Isopropyl Alcohol CAS-No. 67-63-0

Ethylene Glycol CAS-No. 107-21-1

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

2-Butoxyethanol CAS-No. 111-76-2

Sodium Sulfate CAS-No. 7757-82-6

Pennsylvania Right To Know Components

Water CAS-No. 7732-18-5

Isopropyl Alcohol CAS-No. 67-63-0

2-Butoxyethanol CAS-No. 111-76-2

Sodium Sulfate CAS-No. 7757-82-6

New Jersey Right To Know Components

Water CAS-No. 7732-18-5

Isopropyl Alcohol CAS-No. 67-63-0

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2-Butoxyethanol CAS-No. 111-76-2
Sodium Sulfate CAS-No. 7757-82-6

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.

15.2 Chemical Safety Assessment

NFPA (National Fire Protection Association)

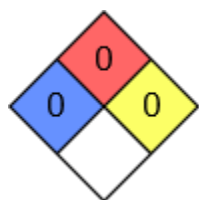
HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

HMIS Rating

Glass Cleaner	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one

half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or biological material

fw = fresh water

mw = marine water

or = occasional release

dw = dry weight

SCBA = Self Contained Breathing Apparatus

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Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S* - Skin notation

TSCA - Toxic Substance Control Act

16.1 Further information/disclaimer

The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship. Safety Data Sheet information is based on the individual ingredients Safety Data Sheets provided by the supplier.

16.2 Preparation information

Aiken Chemical Company, Inc.

P.O. Box 27147

Greenville, SC, 29616

864-968-1250

800-828-1860

864-968-1252 (fax)