### SAFETY DATA SHEET

#### **SECTION 1** PRODUCT and COMPANY INFORMATION

TRADE NAME: Castle® Streak Proof™ PRODUCT TYPE: Glass Cleaner

PRODUCT CODE: C0603, C2003

MANUFACTURED FOR: Castle Products, Inc.

424 St. Paul Street Rochester, NY 14605 (800) 876-0222

EMERGENCY (585) 275-3232

#### **SECTION 2** HAZARDS IDENTIFICATION

Physical hazards

Health hazards Not classified. Not classified. Environmental hazards OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Wash hands after handling. Response

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Storage Dispose of waste and residues in accordance with local authority requirements. Disposal

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### **COMPOSITION INFORMATION ON INGREDIENTS SECTION 3**

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	2.5 - 10
Isopropyl Alcohol		67-63-0	1 - 2.5
Propane		74-98-6	1 - 2.5
Anhydrous Ammonia		7664-41-7	0.1 - 1
Other components below reportable levels			90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## SECTION 4 FIRST AID MEASURES

If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. Inhalation Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed
General information

In the unlikely event of swallowing contact a physician or poison control center.

Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

equipment/mstruction

Specific methods

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

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# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure limits

Components	for Air Contaminants (2 Type	·	Value
2-Butoxyethanol (CAS	PEL		240 mg/m3
111-76-2)	FCL		240 Hig/Hi3
111 10 2)			50 ppm
Anhydrous Ammonia (CAS	PEL		35 mg/m3
7664-41-7)			Ç
			50 ppm
Isopropyl Alcohol (CAS	PEL		980 mg/m3
67-63-0)			400
Dramana (CAC 74 00 6)	DEI		400 ppm
Propane (CAS 74-98-6)	PEL		1800 mg/m3
			1000 ppm
US. ACGIH Threshold Limi			
Components	Туре		Value
2-Butoxyethanol (CAS	TWA		20 ppm
111-76-2)			
Anhydrous Ammonia (CAS	STEI	_	35 ppm
7664-41-7)	T\\/A		25 nnm
Isopropyl Alcohol (CAS	TWA STEI		25 ppm
67-63-0)	SIEL	=	400 ppm
01 00 0)	TWA		200 ppm
US. NIOSH: Pocket Guide			PF
Components	Type		Value
-			
2-Butoxyethanol (CAS 111-76-2)	TWA	ı	24 mg/m3
111-70-2)			5 ppm
Anhydrous Ammonia (CAS	STEI		27 mg/m3
7664-41-7)	SILI	_	27 mg/m3
,			35 ppm
	TWA		18 mg/m3
			25 ppm
Isopropyl Alcohol (CAS	STEI	_	1225 mg/m3
67-63-0)			-
			500 ppm
	TWA	ı	980 mg/m3
			400 ppm
Propane (CAS 74-98-6)	TWA		1800 mg/m3
			1000 ppm
ogical limit values			
ACGIH Biological Exposure	Indices		
Components	Value	Determinant	Specimen Sampling Time
2-Butoxyethanol (CAS	200 mg/g	Butoxyacetic	Creatinine in *
111-76-2)	200 mg/g	acid (BAA),	urine
,		with hydrolysis	

<sup>\* -</sup> For sampling details, please see the source document.

## Exposure guidelines

67-63-0)

Isopropyl Alcohol (CAS

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

40 mg/l

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2)

US - Tennesse OELs: Skin designation

Skin designation applies.

Urine

Can be absorbed through the skin.

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

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Acetone

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

**Appearance** 

Physical state Liquid.
Form Aerosol.
Color Not available.
Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

range

195.27 °F (90.7 °C) estimated

Flash point -245.2 °F (-154.0 °C) estimated

Evaporation rate Not available. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.
Vapor pressure Not available.
Vapor density Not available.
Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Flammability class Flammable IB estimated

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Heat of combustion 3.29 kJ/g estimated 0.926 estimated Specific gravity

> STABILITY and REACTIVITY DATA **SECTION 10**

The product is stable and non-reactive under normal conditions of use, storage and transport. Chemical stability Material is stable under normal conditions.

Possibility of hazardous

Reactivity

Hazardous polymerization does not occur. reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known.

products

#### **SECTION 11** TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard. Prolonged inhalation may be harmful. Inhalation

Rabbit

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and Skin contact

prolonged. These effects have not been observed in humans.

Eye contact Direct contact with eyes may cause temporary irritation. Symptoms related to the Direct contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Components Species **Test Results** 

2-Butoxyethanol (CAS 111-76-2)

Acute Dermal

LD50 Guinea pig 6411 mg/kg

> 230 ml/kg, 24 Hours 7.3 ml/kg, 4 Days 450 ml/kg, 24 Hours

435 mg/kg, 24 Hours

0.63 ml/kg

Rat > 2000 mg/kg, 24 Hours

Inhalation

LC50 Mouse 750 ppm, 7 Hours

Rabbit 400 ppm, 7 Hours Rat 450 ppm, 4 Hours

Oral

LD100 Rabbit 695 mg/kg LD50 Dog > 695 mg/kg

Guinea pig 1200 mg/kg Mouse 1230 mg/kg

Rat 530 - 2800 mg/kg

Anhydrous Ammonia (CAS 7664-41-7)

Acute Inhalation

LC50 4230 ppm, If <1L: Consumer Commodity Mouse

Hours

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Components	Species	Test Results	
	Rat	7939 mg/m3	
		4000 ppm, If <1L: Consumer Commodity Hours	
Oral			
LD50	Rat	350 mg/kg	
Isopropyl Alcohol (CAS 67-	63-0)		
Acute			
Dermal			
LD50	Rabbit	16.4 ml/kg, 24 Hours	
Inhalation			
LC50	Rat	> 10000 ppm, 6 Hours	
Oral			
LD50	Rat	5.84 g/kg	
Propane (CAS 74-98-6)			
Acute			
Inhalation			
LC50	Mouse	1237 mg/l, 120 Minutes	
		52 %, 120 Minutes	
	Rat	1355 mg/l	
		658 mg/l/4h	
		ŭ	

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

## **SECTION 12 ECOLOGICAL INFORMATION**

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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Components		Species	Test Results	
2-Butoxyethanol (CAS	111-76-2)			
Aquatic				
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours	
Anhydrous Ammonia (	CAS 7664-41-7)			
Aquatic				
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.43 - 0.47 mg/l, 96 hours	
Isopropyl Alcohol (CAS	S 67-63-0)			
Aquatic				
Algae	IC50	Algae	1000.0001 mg/L, 72 Hours	
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours	

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol 0.83 Isopropyl Alcohol 0.05 Propane 2.36

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

# **SECTION 14 TRANSPORT INFORMATION**

DOT

UN number UN1950

UN proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN1950 UN number

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Environmental hazards No. **ERG Code** 10L

Special precautions for user

Other information

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed.

Allowed. Cargo aircraft only Packaging Exceptions LTD QTY

**IMDG** 

UN number UN1950 UN proper shipping name **AEROSOLS** Transport hazard class(es)

2.1 Class Subsidiary risk 2.1 Label(s)

Not applicable. Packing group

Environmental hazards

Marine pollutant No. F-D, S-U **EmS** 

Special precautions for user

Packaging Exceptions Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Read safety instructions, SDS and emergency procedures before handling.

LTD QTY Not applicable.

DOT



IATA; IMDG



#### **REGULATORY INFORMATION** SECTION 15

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Anhydrous Ammonia (CAS 7664-41-7) Listed.

SARA 304 Emergency release notification

100 LBS Anhydrous Ammonia (CAS 7664-41-7)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name CAS number Reportable Threshold Threshold Threshold quantity planning quantity planning quantity, planning quantity, lower value upper value

Anhydrous Ammonia 7664-41-7 100 500 lbs No

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. 7664-41-7 0.1 - 1Anhydrous Ammonia

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Anhydrous Ammonia (CAS 7664-41-7)

Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-Butoxvethanol (CAS 111-76-2) Anhydrous Ammonia (CAS 7664-41-7)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2) Anhydrous Ammonia (CAS 7664-41-7)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2)

Anhydrous Ammonia (CAS 7664-41-7)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. Rhode Island RTK

Anhydrous Ammonia (CAS 7664-41-7)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)\* Australia Australian Inventory of Chemical Substances (AICS) No

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Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

On inventory (yes/no)\*

## **SECTION 16 OTHER INFORMATION**

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

Inventory name

Country(s) or region

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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).