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

	Section 2 HAZARDS IDENTIFICATION
Physical hazards	
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
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	<u>C</u> 3
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.
Response	Wash hands after handling.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

WIXIUES			
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

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

SECTION 4 FIRST AID MEASURES

Inhalation Skin contact Eye contact

Mixtures

If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. 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.

Ingestion	In the unlikely event of swallowing contact a physician or poison control center.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	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	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	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.
Specific methods	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.
General fire hazards	Extremely flammable aerosol.
	SECTION 6 ACCIDENTAL RELEASE MEASURES
Personal precautions, protective equipment and emergency procedures	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.
Methods and materials for containment and cleaning up	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.
Environmental precautions	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. Avoid discharge into drains, water courses or onto the ground.
	SECTION 7 HANDLING AND STORAGE
Precautions for safe handling Conditions for safe storage,	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. Level 1 Aerosol.
including any incompatibilities	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).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

SE	ECTION 8	EXPOSUR	RE CONTROLS	/ PERSONAL PROTECTION	
Occupational exposure limits					
US. OSHA Table Z-1 Limits Components	s for Air Conta	minants (29 Type	9 CFR 1910.1000	D) Value	
2-Butoxyethanol (CAS 111-76-2)		PEL		240 mg/m3	
Anhydrous Ammonia (CAS 7664-41-7)		PEL		50 ppm 35 mg/m3	
Isopropyl Alcohol (CAS 67-63-0)		PEL		50 ppm 980 mg/m3	
Propane (CAS 74-98-6)		PEL		400 ppm 1800 mg/m3 1000 ppm	
US. ACGIH Threshold Limi	t Values				
Components		Туре		Value	
2-Butoxyethanol (CAS 111-76-2)		TWA		20 ppm	
Anhydrous Ammonia (CAS 7664-41-7)		STEL		35 ppm	
Isopropyl Alcohol (CAS		TWA STEL		25 ppm 400 ppm	
67-63-0)		TWA		200 ppm	
US. NIOSH: Pocket Guide Components	to Chemical H	lazards Type		Value	
2-Butoxyethanol (CAS 111-76-2)		TWA		24 mg/m3	
Anhydrous Ammonia (CAS 7664-41-7)		STEL		5 ppm 27 mg/m3	
1004 41-1)		TWA		35 ppm 18 mg/m3	
Isopropyl Alcohol (CAS 67-63-0)		STEL		25 ppm 1225 mg/m3	
		TWA		500 ppm 980 mg/m3 400 ppm	
Propane (CAS 74-98-6)		TWA		1800 mg/m3 1000 ppm	
Biological limit values					
ACGIH Biological Exposure Components	e Indices Value		Determinant	Specimen Sampling Time	
2-Butoxyethanol (CAS 111-76-2)	200 mg/g		Butoxyacetic acid (BAA),	Creatinine in * urine	
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l		with hydrolysis Acetone	Urine *	
* - For sampling details, please see the source document.					
Exposure guidelines					
US - California OELs: Skin	designation				
2-Butoxyethanol (CAS US - Minnesota Haz Subs:		ion applies		e absorbed through the skin.	
2-Butoxyethanol (CAS US - Tennesse OELs: Skin	111-76-2)	-		designation applies.	
2-Butoxyethanol (CAS	-		Can b	e absorbed through the skin.	

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 191	0.1000)		
2-Butoxyethanol (CAS 11	1-76-2)	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, suc	ch as personal protective equipn	nent		
Eye/face protection	Wear safety glasses with side	shields (or goggles).		
Hand protection	Wear appropriate chemical res	istant gloves.		
Skin protection				
Other	Wear suitable protective clothin	ng.		
Respiratory protection	If permissible levels are exceed air-supplied respirator.	ded use NIOSH mechanical filter / organic vapor cartridge or an		
Thermal hazards	Wear appropriate thermal prote	ective clothing, when necessary.		
General hygiene considerations	-	vays observe good personal hygiene measures, such as washing before eating, drinking, and/or smoking. Routinely wash work ent 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.
рН	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 explo	sive 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 (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flammability class	Flammable IB estimated

Heat of combustion	3.29 kJ/g estimated
Specific gravity	0.926 estimated
	SECTION 10 STABILITY and REACTIVITY DATA
Reactivity	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 reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11 TOXICOLOGICAL INFORMATION

nformation on likely routes of	exposure		
Ingestion	Expected to be a low ingestion haz	ard.	
Inhalation	Prolonged inhalation may be harmf	Prolonged inhalation may be harmful.	
Skin contact		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.	
Eye contact	Direct contact with eyes may cause	e temporary irritation.	
Symptoms related to the ohysical, chemical and oxicological characteristics	Direct contact with eyes may cause	e temporary irritation.	
nformation on toxicological ef	fects		
Acute toxicity			
Components	Species	Test Results	
P-Butoxyethanol (CAS 111-76	-2)		
Acute			
Dermal			
LD50	Guinea pig	6411 mg/kg	
		230 ml/kg, 24 Hours	
		7.3 ml/kg, 4 Days	
	Rabbit	450 ml/kg, 24 Hours	
		435 mg/kg, 24 Hours	
		0.63 ml/kg	
	Rat	> 2000 mg/kg, 24 Hours	
Inhalation	Maria	750	
LC50	Mouse	750 ppm, 7 Hours	
	Rabbit	400 ppm, 7 Hours	
	Rat	450 ppm, 4 Hours	
Oral LD100	Rabbit	695 mg/kg	
		> 695 mg/kg	
LD50	Dog Guinea pig	1200 mg/kg	
	Mouse	1230 mg/kg	
	Rat	530 - 2800 mg/kg	
nhydrous Ammonia (CAS 76	04-41-7)		
Acute Inhalation			
LC50	Mouse	4230 ppm, If <1L: Consumer Commodity Hours	

Components	Species	Test Results
	Rat	7939 mg/m3
		4000 ppm, If <1L: Consumer Commodity Hours
Oral		
LD50	Rat	350 mg/kg
sopropyl 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
* Estimates for product may l	be based on additional component data n	ot shown.
Skin corrosion/irritation	Prolonged skin contact may cause tem	porary irritation.
Serious eye damage/eye rritation	Direct contact with eyes may cause ter	nporary irritation.
Respiratory or skin sensitization		
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause s	skin sensitization.
Germ cell mutagenicity	No data available to indicate product o mutagenic or genotoxic.	r any components present at greater than 0.1% are
Carcinogenicity	This product is not considered to be a	carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall E	valuation of Carcinogenicity	
2-Butoxyethanol (CAS 1 OSHA Specifically Regulated Not listed.	11-76-2) 3 Not c Substances (29 CFR 1910.1001-1050)	lassifiable as to carcinogenicity to humans.
Reproductive toxicity	This product is not expected to cause i	eproductive or developmental effects
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - epeated exposure	Not classified.	
Aspiration hazard	Not available.	
Chronic effects	Prolonged inhalation may be harmful. I	May be harmful if absorbed through skin.
	2-Butoxy ethanol may be absorbed thropped prolonged. These effects have not been been been been been been been bee	bugh the skin in toxic amounts if contact is repeated and

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.

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 67-0	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
* Estimates for product may	be based on	additional component data not shown.	
Persistence and degradability	No data is	available on the degradability of this produc	ct.
Bioaccumulative potential	No data av	vailable.	
Partition coefficient n-octan 2-Butoxyethanol Isopropyl Alcohol Propane	ol / water (log	Kow) 0.83 0.05 2.36	
Nobility in soil	No data av		
Other adverse effects	No other a	ndverse environmental effects (e.g. ozone d endocrine disruption, global warming potent	
	SEC	TION 13 DISPOSAL CONSIDERATION	DNS
Disposal instructions	under pres	d reclaim or dispose in sealed containers at ssure. Do not puncture, incinerate or crush. regional/national/international regulations.	licensed waste disposal site. Contents Dispose of contents/container in accordance
ocal disposal regulations	Dispose ir	accordance with all applicable regulations.	
lazardous waste code	The waste disposal c	code should be assigned in discussion bet ompany.	ween the user, the producer and the waste
Vaste from residues / unused roducts	product re	f in accordance with local regulations. Empt sidues. This material and its container must nstructions).	
Contaminated packaging	Since emp	tainers should be taken to an approved was tied containers may retain product residue, Do not re-use empty containers.	ste handling site for recycling or disposal. follow label warnings even after container is

SECTION 14 TRANSPORT INFORMATION

DOT	
UN number	UN1950
UN proper shipping name Transport hazard class(es)	Aerosols, flammable, (each not exceeding 1 L capacity)
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.

ΙΑΤΑ

IATA	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
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.
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
DOT	



SECTION 15 REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Expo Not regulated.	ort Notification (40	CFR 707, Subj	ot. D)				
CERCLA Hazardous Sub	stance List (40 CF	R 302.4)					
Anhydrous Ammonia SARA 304 Emergency re			Listed.				
Anhydrous Ammonia OSHA Specifically Regula Not listed.	· /		100 LBS 001-1050)				
Superfund Amendments and	Reauthorization A	ct of 1986 (SAF	(A)				
Hazard categories	Immediate H Delayed Ha Fire Hazard Pressure Ha	Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No					
SARA 302 Extremely haz	ardous substance)					
Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value		
Anhydrous Ammonia	7664-41-7	100	500 lbs				
SARA 311/312 Hazardou chemical	s No						
SARA 313 (TRI reporting)						
Chemical name			CAS number	% by wt.			
Anhydrous Ammonia			7664-41-7	0.1 - 1			
Other federal regulations	an 110 Hanardau						
Clean Air Act (CAA) Sect Not regulated.	Ion 112 Hazardous	s Air Pollutants	(HAPS) LIST				
Clean Air Act (CAA) Sect	ion 112(r) Acciden	tal Release Pre	evention (40 CFR 68.1	30)			
Anhydrous Ammonia Propane (CAS 74-98	(CAS 7664-41-7)			,			
Safe Drinking Water Act (SDWA)	Not regulate	ed.					
US state regulations							
US. Massachusetts RTK - Substance List							
2-Butoxyethanol (CA Anhydrous Ammonia Isopropyl Alcohol (C/ Propane (CAS 74-98	(CAS 7664-41-7) AS 67-63-0) -6)						
US. New Jersey Worker a	•	ght-to-Know Ac	t				
2-Butoxyethanol (CAS 111-76-2) Anhydrous Ammonia (CAS 7664-41-7)							
Isopropyl Alcohol (C/	· /						
Propane (CAS 74-98							
US. Pennsylvania Worke		Right-to-Know I	_aw				
2-Butoxyethanol (CA Anhydrous Ammonia Isopropyl Alcohol (C/ Propane (CAS 74-98 US. Rhode Island RTK	(CAS 7664-41-7) AS 67-63-0)						
Anhydrous Ammonia Isopropyl Alcohol (C/ Propane (CAS 74-98	AS 67-63-0)						
US. California Proposition	,						
•	ing Water and To			ion 65): This material is	not known to contain		
International Inventories							
Country(s) or region Australia	Inventory na Australian II		emical Substances (Al	CS)	On inventory (yes/no)* No		
Streak Proof		Product	Code: C0603. C2003		Page 9 of 10		

Country(s) or region	Inventory name On inventory (yes/no)*
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
*A "Ves" indicates that all compo	nents of this product comply with the inventory requirements administered by the avverning country	c)

*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).

SECTION 16 OTHER INFORMATION

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

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PREPARED: 6/9/94

UPDATED: 02/18/20

PRODUCT #: C0603, C2003