SAFETY DATA SHEET

1. Identification

Product number	CP873 - 1000008364
Product identifier	19 OZ BAFEX DISINFECTANT CLNR
Revision date	05-22-2015
Company information	BRADY INDUSTRIES 7055 LINDELL ROAD LAS VEGAS, NV 89118 United States
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	04
Supersedes date	03-23-2015
Recommended use	PESTICIDE
Recommended restrictions	None known.

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
Health hazards	Serious eye damage/eye irritation	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Extremely flammable aerosol. Causes serious eye irritation.
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 thoroughly after handling. Wear eye/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	2.5 - 10
Butane		106-97-8	1 - 2.5
EDTA Tertrasodium Salt		64-02-8	1 - 2.5
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.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	

Suitable extinguishing media Water. Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from Contents under pressure. Pressurized container may explode when exposed to heat or flame. the chemical Special protective equipment Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. and precautions for firefighters **Fire-fighting** 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 equipment/instructions 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 Specific methods 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. General fire hazards

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. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
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.
mendaning any meenpatibilities	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).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Type Value PFI 2-Butoxyethanol (CAS 240 mg/m3 111-76-2) 50 ppm **US. ACGIH Threshold Limit Values** Components Value Type 2-Butoxyethanol (CAS TWA 20 ppm 111-76-2) Butane (CAS 106-97-8) STEL 1000 ppm **US. NIOSH: Pocket Guide to Chemical Hazards** Components Value Type 2-Butoxvethanol (CAS TWA 24 ma/m3 111-76-2) 5 ppm Butane (CAS 106-97-8) TWA 1900 mg/m3 800 ppm **Biological limit values ACGIH Biological Exposure Indices** Components Value Determinant Specimen Sampling Time Butoxyacetic Creatinine in 2-Butoxyethanol (CAS 200 mg/g 111-76-2) acid (BAA), urine with hydrolysis * - For sampling details, please see the source document. **Exposure** guidelines US - California OELs: Skin designation 2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin. US - Minnesota Haz Subs: Skin designation applies 2-Butoxyethanol (CAS 111-76-2) Skin designation applies. US - Tennesse OELs: Skin designation 2-Butoxyethanol (CAS 111-76-2) Can be 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 1910.1000) 2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates Appropriate engineering should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, controls 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. Provide eyewash station. 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. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an **Respiratory protection** air-supplied respirator. Wear appropriate thermal protective clothing, when necessary. Thermal hazards When using do not smoke. Always observe good personal hygiene measures, such as washing **General hygiene** after handling the material and before eating, drinking, and/or smoking. Routinely wash work considerations clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

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Appearance	
Physical state	Gas.
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	212 °F (100 °C) estimated
Flash point	-156.0 °F (-104.4 °C) Propellant estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	55 - 75 psig @70F estimated
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 Specific gravity	0.979 estimated
10. Stability and reactivity	
Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
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. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Acids. Oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological informat	ion
Information on likely routes of ex	kposure
Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated an

Skin contact2-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 Causes serious eye irritation.

Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful if swallowed.

Acute toxicity	Harmful if inhaled. Harmful if swallowed.	
Components	Species	Test Results
2-Butoxyethanol (CAS 111-76-2)		
Acute		
Dermal		
LD50	Guinea pig	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		
LC50	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
	Rat	530 - 2800 mg/kg
Butane (CAS 106-97-8)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
EDTA Tertrasodium Salt (CAS 64-	02-8)	
Acute		
Oral		4070 #
LD50	Rat	1658 mg/kg
* Estimates for product may be	e based on additional component data not shown.	
Skin corrosion/irritation	Causes skin burns.	
Serious eye damage/eye irritation	Causes eye burns. Risk of serious damage to eyes	
Respiratory or skin sensitization	1	
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 b	y IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall I	Evaluation of Carcinogenicity	
2-Butoxyethanol (CAS 11 OSHA Specifically Regulate	1-76-2) 3 Not classifiable as d Substances (29 CFR 1910.1001-1050)	s to carcinogenicity to humans.
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 likely, due to the form of the product.
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.

12. Ecological information

Ecotoxicity		ct is not classified as environmentally hazar that large or frequent spills can have a harm	
Components		Species	Test Results
2-Butoxyethanol (CAS 111-	76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
EDTA Tertrasodium Salt (C	AS 64-02-8)		
Aquatic			
Algae	IC50	Algae	1.01 mg/L, 72 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
Persistence and degradability Bioaccumulative potential Partition coefficient n-oct 2-Butoxyethanol Butane	No data av		xt.
Mobility in soil	No data av	/ailable.	
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.	
13. Disposal considerati	ons		
Disposal instructions	under pres	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 disposal c	code should be assigned in discussion betwo per should be assigned in discussion betwo per solution betwo per s	ween the user, the producer and the waste

Waste from residues / unused products

Contaminated packagingDisposal instructions).Contaminated packagingEmpty 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.

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:

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. 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

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	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
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. Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	



15. Regulatory information

15. Regulatory inform	ation					
US federal regulations	Standard, 2	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) Ex	port Notification (40 CFR 707, Subpt. D)					
Not regulated. CERCLA Hazardous Si	ubstance List (40	CFR 302.4)				
Not listed. SARA 304 Emergency	release notificatio	n				
Not regulated. OSHA Specifically Reg	ulated Substance	s (29 CFR 1910	.1001-1050)			
Not listed.						
Superfund Amendments ar Hazard categories		Hazard - Yes izard - No I - Yes azard - No	SARA)			
SARA 302 Extremely h						
Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value	
Anhydrous Ammonia Hydrogen Peroxide	7664-41-7 7722-84-1	100 1000	500 lbs 1000 lbs			
SARA 311/312 Hazardo chemical	ous No					
SARA 313 (TRI reportir Not regulated.	ng)					
Other federal regulations Clean Air Act (CAA) Se	ction 112 Hazardo	ous Air Pollutai	nts (HAPs) List			
Not regulated.						
Clean Air Act (CAA) Se Butane (CAS 106-9		lental Release	Prevention (40 CFR 6	8.130)		
Safe Drinking Water Ao (SDWA)	t Not regulate	ed.				
FIFRA Information	Agency and requiremen sheets (SD	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.				
US state regulations						
US. Massachusetts RT	K - Substance Lis	t				
2-Butoxyethanol (C/ Butane (CAS 106-9	7-8)					
US. New Jersey Worke	-	Right-to-Know	Act			
2-Butoxyethanol (C/ Butane (CAS 106-9	,					
US. Pennsylvania Worl		ty Right-to-Kno	ow Law			
2-Butoxyethanol (CAS 111-76-2)						
Butane (CAS 106-97-8) US. Rhode Island RTK						
Butane (CAS 106-9	7-8)					
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
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
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 "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).

16. Other information, including date of preparation or last revision

Issue date	09-08-2014
Revision date	05-22-2015
Version #	04
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.