SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	Boardwalk Glass Cleaner	BWK341A
Material number	:	1041288 / A06410	
Manufacturer or supplier's	deta	ails	
Company	:	Boardwalk / Essendant Co.	
Address	:	One Parkway North Deerfield, IL 60015	
Telephone	:	844-828-5617	
Emergency telephone nu	mł	ers	
For SDS Information		: 844-828-5617	
For a Medical Emergency		:	
For a Transportation		: Chemtel: 1(800)255-3924	
Emorgonov			

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Emergency

Appearance	Aerosol containing a liquefied gas
Colour	clear
Odour	characteristic

GHS Classification	
Gases under pressure	: Liquefied gas
GHS Label element	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: H280 Contains gas under pressure; may explode if heated.
Precautionary statements	: Storage: P410 + P403 Protect from sunlight. Store in a well-ventilated place.
Potential Health Effects	
Carcinogenicity:	
IARC ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Confirmed animal carcinogen with unknown relevance to
	humans

Version 1.0Revision Date 05/27/2015Print Date 03/21/2017OSHA2-butoxyethanol111-76-2No component of this product present at levels greater than or
equal to 0.1% is identified as a carcinogen or potential
carcinogen by OSHA.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.

BWK341A

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
propane	74-98-6	>= 1 - < 5
butane	106-97-8	>= 1 - < 5
2-butoxyethanol	111-76-2	>= 1 - < 5
ethanol	64-17-5	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice	 Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	 If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	 If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. If on clothes, remove clothes.
In case of eye contact	 Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If in eyes, rinse with water for 15 minutes.
If swallowed	 Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: High volume water jet

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Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon dioxide (CO2) Carbon monoxide Smoke
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	 Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	 Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Always replace cap after use. Do not breathe vapours or spray mist. Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use.
Conditions for safe storage	: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

	red-hot objects. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propane	74-98-6	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,800 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m3	OSHA P0
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0

Components with workplace control parameters

Biological occupational exposure limits

Component	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-BUTOXYETHANOL	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g	ACGIH BEI
Remarks: Creatinine						

Personal protective equipment

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Respiratory protection	: Use respiratory protection unless a ventilation is provided or exposure that exposures are within recomme	assessment demonstrates
Hand protection Remarks	: The suitability for a specific workpl with the producers of the protective	
Eye protection	: Ensure that eyewash stations and the workstation location. Tightly fitting safety goggles	safety showers are close to
Skin and body protection	: impervious clothing Choose body protection according concentration of the dangerous su	
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at	the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aerosol containing a liquefied gas
Colour	:	clear
Odour	:	characteristic
Odour Threshold	:	no data available
рН	:	no data available
Melting point/freezing point	:	no data available
Boiling point	:	not applicable
Flash point	:	not applicable
Evaporation rate	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	not applicable
Relative vapour density	:	no data available
Density	:	no data available
Solubility(ies)		
Water solubility	:	slightly soluble
Partition coefficient: n- octanol/water	:	no data available
Auto-ignition temperature	:	not determined
Thermal decomposition	:	no data available
Viscosity		
Viscosity, kinematic	:	no data available

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	: Strong oxidizing agents Alkali metals
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:	
Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Components:	
propane: Acute inhalation toxicity	: LC50 mouse: 1,237 mg/l Exposure time: 2 h
	LC50 rat: 658 mg/l Exposure time: 4 h
	LC50 rat: 1,355 mg/l
butane: Acute inhalation toxicity	: LC50 mouse: 1,237 mg/l Exposure time: 2 h
	LC50 rat: 1,355 mg/l

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ethanol:

Acute oral toxicity	: LD50 Oral rat: 7,060 mg/kg
Acute inhalation toxicity	: LC50 rat: 124.7 mg/l Exposure time: 4 h

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

Product:

Carcinogenicity -	:	Not classifiable as a human carcinogen.
Assessment		

Reproductive toxicity

no data available

propane: butane: 2-butoxyethanol: ethanol:

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

Further information

Product:

Remarks: no data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available	
Persistence and degradability	
no data available Bioaccumulative potential	
Product:	
Partition coefficient: n- octanol/water <u>Components:</u> butane : Partition coefficient: n-	: Remarks: no data available : Pow: 2.89
octanol/water	
Mobility in soil	
no data available	
Other adverse effects	
no data available <u>Product:</u>	
Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	: no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

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Transportation Regulation: 49 CFR (USA): ORM-D, CONSUMER COMMODITY

Transportation Regulation: IMDG (Vessel): UN1950, AEROSOLS, 2.2, - Limited quantity

Transportation Regulation: IATA (Cargo Air): UN1950, AEROSOLS, 2.2, - Limited quantity

Transportation Regulation: IATA (Passenger Air): UN1950, AEROSOLS, 2.2, - Limited quantity

Transportation Regulation: TDG (Canada): UN1950, AEROSOLS, 2.2, - Limited quantity

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2,2'-iminodiethanol	111-42-2	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	: Sudden Release of Pressure Hazard
SARA 302	: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	: SARA 313: 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.
California Prop 65 2,2'-imin	WARNING! This product contains a chemical known to the State of California to cause cancer. odiethanol 111-42-2

The components of this product are reported in the following inventories:

TSCA DSL	On TSCA Inventory All components of this product are on the Canadian DSL.
AICS	On the inventory, or in compliance with the inventory
NZIOC	Not in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

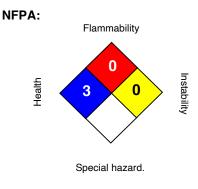
Inventory Acronym and Validity Area Legend:

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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

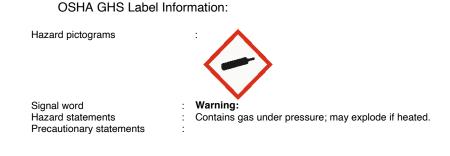


HMIS III:



0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic



Storage: Protect from sunlight. Store in a well-ventilated place.

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