

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier:
Blitz Concentrated Lane Cleaner (10x pints)
- Alternate Names:
Product Code: 62-860250-000
- 1.2. Relevant identified uses of the mixture and uses advised against:
Bowling lane cleaner for professional use.
- 1.3. Details of the supplier of the safety data sheet:
Brunswick Bowling Products, LLC
525 W. Laketon Ave.
Muskegon, MI 49441. USA
- 1.3.1. Responsible person: -
E-mail: brunswick.hu@brunswickbowling.com
- 1.4. Emergency telephone number: 24-hour Emergency Telephone No.: CHEMTEL +1 813-248-0585
Customer Service: Brunswick Bowling Products LLC: 231-725-4966

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the mixture:
- Classification according to Regulation 1272/2008/EC (CLP):
Eye Damage 1 - H318
- Warning H statements:**
H318 – Causes serious eye damage.
- 2.2. Label elements:
- Components which define the hazards: Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-**



Warning H statements:
H318 – Causes serious eye damage.

Precautionary P statements:

P280 – Wear protective gloves/eye protection/face protection.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 – Immediately call a POISON CENTER/doctor.
P312 – Call a POISON CENTER/ doctor/if you feel unwell.
P332 + P313 – If skin irritation occurs: Get medical advice/attention.

- 2.3. Other hazards:
The product has no other known specific hazards for human or environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
Not applicable.

3.2. Mixture:

Description	CAS number	EC number	REACH reg. nr.	Conc. (%)	Classification: 1272/2008/EC (CLP)		
					Hazard pict.	Hazard cat.	H phrase
2-(2-Butoxyethoxy) ethanol ^[1]	112-34-5	203-961-6	-	10 - 25	GHS07 Warning	Eye Irrit. 2	H319
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-* ^[1]	34398-01-1	-	-	10 - 25	GHS05 GHS07 Danger	Acute Tox. 4 Eye Dam. 1	H302 H318
Ethylene glycol monobutyl ether ^{[1] [2]}	111-76-2	203-905-0	-	5 - 10	GHS07 Warning	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Eye Irrit. 2 Skin Irrit. 2	H332 H312 H302 H319 H315
Propan-2-ol ^{[1] [2]}	67-63-0	200-661-7	-	1 - 5	GHS02 GHS07 Danger	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336

*: Substance classified by the manufacturer or substance which has no obligatory classification according to the EU regulations.

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

For the full text of H phrases: see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General:

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

IN CASE OF INGESTION:

Measures:

- If swallowed obtain immediate medical attention. Keep at rest.
- Do NOT induce vomiting.

IN CASE OF INHALATION:

Measures:

- Remove to fresh air, keep patient warm and at rest.
- If breathing is irregular or stopped, give artificial respiration.
- If unconscious place in the recovery position and obtain immediate medical attention.
- Give nothing by mouth.

IN CASE OF SKIN CONTACT:

Measures:

- Remove contaminated clothing.
- Wash skin thoroughly with soap and water or use a recognized skin cleanser.

IN CASE OF EYE CONTACT:

Measures:

- Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

- Eyes: Causes serious eye damage.
Skin: Causes mild skin irritation.
Ingestion: May be harmful if swallowed.

- 4.3. Indication of any immediate medical attention and special treatment needed:
No data available.

SECTION 5: FIRE-FIGHTING MEASURES

- 5.1. Extinguishing media:
5.1.1. Suitable extinguishing media:
Carbon Dioxide, Dry Chemical, Foam, Water Fog.
5.1.2. Unsuitable extinguishing media:
None known.
- 5.2. Special hazards arising from the substance or mixture:
Hazardous decomposition: Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed. May form peroxides of unknown stability.
- 5.3. Advise for fire fighters:
Highly flammable liquid and vapor. Combustible liquid and vapor. Vapors/dust may cause flash fire or explosion. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.
As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Avoid use of solid water streams. Use water with caution, may interact with material and cause harm/damage. Water spray to cool containers or protect personnel. Use with caution. Use water spray to knock down vapors. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Small fires: Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Large fires: Water spray, water fog, and alcohol-resistant foam.
ERG Guide No. ----

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:
6.1.1. For non-emergency personnel:
Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.
6.1.2. For emergency responders:
Put on appropriate personal protective equipment (see section 8). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
- 6.2. Environmental precautions:
Do not allow spills to enter drains or waterways.
- 6.3. Methods and material for containment and cleaning up:
Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump). Flush spill area with water spray after clean up.
- 6.4. Reference to other sections:
For further and detailed information see section 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:
Observe conventional hygiene precautions.
Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing.
Technical measures:
Potential peroxide former. If peroxide formation is suspected, do not open or move container. Take precautionary measures against static discharge. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. After opening, purge container with nitrogen before reclosing. Addition of water or appropriate reducing materials will lessen peroxide formation. Follow all SDS/label precautions even after containers are emptied because they may retain product residues.
See section 2 for further details. - [Prevention]:
Precautions against fire and explosion:
No special measures required.
- 7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

Handle containers carefully to prevent damage and spillage.

Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep from freezing. Keep container closed when not in use. Do not allow to evaporate to near dryness. Protect from direct sunlight.

Incompatible materials: Avoid contact with caustics. Keep separate from alkalies. Prevent contact with aldehydes. Avoid contact with chlorinated compounds. Avoid contact with ammonia. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Avoid contact with amines. Keep away from acids. Avoid contact with bases.

See section 2 for further details. - [Storage]:

Packaging material: no special measures.

7.3. Specific end use(s):

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

EH40/2005 Workplace exposure limits:

Propan-2-ol (CAS: 67-63-0):

Long-term exposure limit (8-hr) TWA reference period: 400 ppm; 999 mg/m³

Short-term exposure limit (15 minute reference period): 500 ppm; 1250 mg/m³

2-Butoxyethanol(CAS: 111-76-2):

Long-term exposure limit (8-hr) TWA reference period: 25 ppm; 123 mg/m³

Short-term exposure limit (15 minute reference period): 50 ppm; 246 mg/m³

2-(2-Butoxyethoxy) ethanol (CAS: 112-34-5):

Long-term exposure limit (8-hr) TWA reference period: 10 ppm; 67,5 mg/m³

Short-term exposure limit (15 minute reference period): 15 ppm; 101,2 mg/m³

DNEL		Routes of exposure	Exposure frequency:	Remarks:
Worker	Consumer			
no data available	no data available	Dermal	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Inhalative	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Oral	Short term (acute) Long term (repeated)	no data available

PNEC			Exposure frequency:	Remarks:
Water	Soil	Air		
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1 Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

Engineering Controls:

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices:

Eye bath and safety shower, uniforms or aprons may be used to avoid excessive contact. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

8.2.2. Individual protection measures, such as personal protective equipment:

1. Eye/face protection: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).
 2. Skin protection:
 - a. Hand protection: Wear impervious gloves to prevent contact with the skin, where contact is likely, wear chemical resistant gloves.
 - b. Other: Wear long sleeves when contact is likely to occur. Wear protective gear as needed - apron, suit, boots. Where contact is likely, wear a chemical suit, rubber boots, and chemical safety goggles plus a face shield.
 3. Respiratory protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
 4. Thermal hazard: none known.
- 8.2.3. Environmental exposure controls:
No specific prescription.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Test method:	Remarks:
1. Appearance:		green liquid
2. Odour:		typical
3. Odour threshold:		not determined
4. pH value:		not determined
5. Melting point/ freezing point:		not measured
6. Initial boiling point/boiling range:		82.2 – 245 °C
7. Flash point:		> 93.3 °C
8. Evaporation rate (Ether =1):		not determined
9. Flammability (solid, gas):		not applicable
10. Upper/lower flammability or explosive limits:		Lower Exp. Limit: 1 % Upper Exp. Limit: 7 %
11. Vapour pressure (Pa):		not determined
12 Vapour density:		not determined
13. Relative density:		0.975
14. Solubility(ies):		solubility in water: soluble
15. Partition coefficient: n-octanol/water (Log Kow):		not measured
16. Auto-ignition temperature:		not determined
17. Decomposition temperature:		not measured
18. Viscosity:		not measured
19. Explosive properties:		not measured
20. Oxidizing properties:		not measured

9.2. Other information:

Specific Gravity: not measured.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Hazardous polymerization will not occur.

10.2. Chemical stability:

Stable under normal circumstances.

10.3. Possibility of hazardous reactions:

No data available.

10.4. Conditions to avoid:

Avoid impact, friction, heat, sparks, flame and source of ignition. Minimize exposure to air.

10.5. Incompatible materials:

Avoid contact with caustics. Keep separate from alkalis. Prevent contact with aldehydes. Avoid contact with chlorinated compounds. Avoid contact with ammonia. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Avoid contact with amines. Keep away from acids. Avoid contact with bases.

10.6. Hazardous decomposition products:

Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed. May form peroxides of unknown stability.

SECTION 11: TOXICOLOGICAL INFORMATION11.1. Information on toxicological effects:

Acute toxicity: Oral: none known.

Skin corrosion/irritation: none known.

Serious eye damage/eye irritation: Causes serious eye damage.

Respiratory or skin sensitization: none known.

Germ cell mutagenicity: none known.

Carcinogenicity: none known.

Reproductive toxicity: none known.

STOT-single exposure: none known.

STOT-repeated exposure: none known.

Aspiration hazard: none known.

11.1.1. For substances subject to registration, brief summaries of the information derived from the test conducted:

No data available.

11.1.2. Relevant toxicological properties of the hazardous substances:

Information about the components:

Carcinogen data:

CAS No.	Ingredient	Source	Value
67-63-0	Propan-2-ol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
111-76-2	Ethylene glycol monobutyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
112-34-5	2-(2-Butoxyethoxy) ethanol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
34398-01-1	Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

11.1.3. Information on likely routes of exposure:

Ingestion, inhalation, skin contact, eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50,	Inhalation Dust/Mist	Inhalation Gas LC50,
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			mg/l/4hr	LC50, mg/l/4hr	ppm
2-(2-Butoxyethoxy) ethanol (CAS: 112-34-5)	5660 Rat Category: No data available	2700 Rabbit Category: 5	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.- hydroxy- (CAS: 34398-01-1)	No data available	No data available	No data available	No data available	No data available
2-Butoxyethanol (CAS: 111-76-2)	1414 Guinea Pig Category: 4	1200 Guinea Pig Category: 4	173 Guinea Pig Category: No data available	No data available	No data available
Propan-2-ol (CAS: 67-63-0)	4710 Rat Category: 5	12800 Rat Category: No data available	72.6 Rat Category: No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:
Causes serious eye damage.
- 11.1.6. Interactive effects:
No data available.
- 11.1.7. Absence of specific data:
No information.
- 11.1.8. Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
2-(2-Butoxyethoxy) ethanol (CAS: 112-34-5)	1300 Lepomis macrochirus	100 Daphnia magna	Not Available
Poly(oxy-1,2-ethanediyl), .alpha.- undecyl-.omega.-hydroxy- (CAS: 34398-01-1)	Not Available	Not Available	Not Available
2-Butoxyethanol (CAS: 111-76-2)	220 Fish (Piscis)	1000 Daphnia magna	Not Available
Propan-2-ol (CAS: 67-63-0)	1400 Lepomis macrochirus	100 Daphnia magna	100 (72 hr) Scenedesmus subspicatus

- 12.2. Persistence and degradability:
There is no data available on the preparation itself.

- 12.3. Bioaccumulation potential:
Not Measured.
- 12.4. Mobility in soil:
No data available.
- 12.5. Results of PBT and vPvB assessment:
This product contains no PBT/vPvB chemicals.
- 12.6. Other adverse effects:
No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:
No special recommendation from the manufacturer.
European Waste Code:
For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.
- 13.1.2. Information regarding the disposal of the packaging:
Dispose according to the relevant regulations.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:
None known.
- 13.1.4. Sewage disposal:
None known.
- 13.1.5. Special precautions for any recommended waste treatment:
No data available.

SECTION 14: TRANSPORT INFORMATION

Not dangerous good in sense of the transport regulations.

- 14.1. UN Number:
None.
- 14.2. UN proper shipping name:
None.
- 14.3. Transport hazard class(es):
None.
- 14.4. Packaging group:
None.
- 14.5. Environmental hazard:
Marine Pollutant: no.
- 14.6. Special precautions for user:
No relevant information available.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
Not applicable.

SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents

- 15.2. Chemical safety assessment: no information available.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: none.

Full text of the abbreviations in the safety data sheet:

Brunswick Bowling Products, LLC

DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenicity, mutagenicity and toxicity for reproduction. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent, Very Bioaccumulative. n.d.: not defined. n.a.: not applicable.

Data sources: safety data sheet (01. 03. 2015) issued by the manufacturer.

Methods used for the classification according to Regulation 1272/2008/EC:

Eye Damage 1 - H318

Based on calculation method

Relevant H-Phrases (number and full text) of Section 2 and 3:

H225 – Highly flammable liquid and vapour.

H302 – Harmful if swallowed.

H312 – Harmful in contact with skin.

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.

H336 – May cause drowsiness or dizziness.

Training advice: no data available.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by: ToxInfo Kft.

Professional help regarding the explanation of the safety data sheet:

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