



Kegel LLC

Product: Defense-C Lane Cleaner

Safety Data Sheet

Revision: 5.0

1 October 2019

Section 1: Identification

Product identifier: Defense-C Lane Cleaner

Other Means of identification

Part Number(s): 156-8405

Recommended Use: Bowling lane cleaner concentrate

Restrictions on Use: Uses other than those stated; for industrial/professional use only

Manufacturer: Kegel LLC
1951 Longleaf Blvd
Lake Wales, FL 33859, USA

Emergency Phone: (863) 734-0200 (available from 8 AM – 5 PM EST)
(800) 280-2695 (24 hour; call forwarding service available during non-business hours)

Email: SDS@kegel.net

Section 2: Hazard(s) identification

Classification: This product is classified as hazardous according to 29 CFR 1910.1200

Physical Hazards: Flammable Liquid Category 3

Health Hazards: Eye Irritation Category 2

Skin Irritation Category 2

Acute Toxicity (Oral) Category 4

Acute Toxicity (Dermal) Category 5

Acute Toxicity (Inhalation) Category 5

Environmental Hazards: Aquatic Acute Category 2

Aquatic Chronic Category 3

Label Elements



Pictogram(s)/Symbol(s): GHS02/Flame; GHS07/Exclamation Point

Signal Word: Warning

Hazard statements

H226: Flammable liquid and vapor

H319: Causes serious eye irritation

H315: Causes skin irritation

H302: Harmful if swallowed

H313: May be harmful in contact with skin

H333: May be harmful if inhaled

H401: Toxic to aquatic life

H412: Harmful to aquatic life with long-lasting effects

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P264: Wash hand thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P273: Avoid release to the environment.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378: In case of fire: Use an ABC rated or chemical rated extinguisher to extinguish.
P330: Rinse mouth.
P302+P352: IF ON SKIN: Wash with plenty of water
P362+P364: Take off contaminated clothing and wash it before reuse.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P312: IF ON SKIN: Call a POISON CENTER/doctor if you feel unwell.
P304+P312: IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

Storage: P403+P235: Store in a well-ventilated place. Keep cool.

Disposal: P501: Dispose of contents and container as required by all local, state, federal and international laws or regulations.

Hazards not otherwise classified: None known

Unknown toxicity: There are no substances of unknown toxicity in this mixture

Section 3: Composition/information on ingredients

Chemical name	CAS Number	Concentration (%)	Classification*
Water	7732-18-5	75	Not Classified
2-butoxyethanol	111-76-2	14	Acute Oral Toxicity Category 4/H302 Acute Dermal Toxicity Category 4/H312 Skin Irritation Category 2/H315 Eye Irritation Category 2/H319 Acute Inhalation Toxicity Category 4/H332
Alcohol ethoxylate	Mixture	8	Acute Oral Toxicity Category 4/H302 Eye Damage Category 1/H318
D-limonene	5989-27-5	2	Flammable Liquid Category 3/H226 Skin Irritation Category 2/H315 Skin Sensitizer Category 1/H317 Acute Aquatic Toxicity Category 1/H400 Chronic Aquatic Toxicity Category 1/H410
Isopropylamine alkylbenzene sulfonic (C9-17 Br)	68649-00-3	1	Acute Oral Toxicity Category 4/H302 Skin Irritation Category 2/H315 Eye Irritation Category 2/H319 Acute Aquatic Toxicity Category 2/H401 Chronic Aquatic Toxicity Category 3/H412

*Occupational Exposure Limit(s), if available, are listed in section 8. See section 16 for the full text of the H phrases declared above.

Section 4: First-aid measures

Description of first aid measures

Skin Contact: Wash skin with soap and water. Remove any contaminated clothing and wash clothing before reuse. If irritation persists, seek medical attention.

Eye Contact: Flush eyes thoroughly with water while holding eyes open for at least 15 minutes. If wearing contact lenses, remove lenses and flush eyes for several minutes. If discomfort persists, seek medical attention.

Ingestion: Do not induce vomiting unless directed to do so by medical professional. Treat symptomatically. Seek medical attention as necessary. Never give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air. Obtain medical attention. Qualified personnel may give oxygen if breathing is difficult or cyanosis (blue discoloration of the skin) is noted. Give artificial respiration if subject is not breathing.

Most important symptoms/effects; acute and delayed

Skin Absorption: Harmful effects are not expected from short periods of contact. Prolonged or repeated contact may lead to skin irritation by dermatitis including swelling, redness, drying, itching and cracking.

Eye Contact: Harmful effects are not expected from short periods of contact. Eye irritation including redness and tearing may occur. Corneal inflammation may also occur.

Ingestion: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury. Ingestion may cause gastrointestinal irritation, nausea and diarrhea. Product ingested in large quantities in concentrated form may cause toxic effects.

Inhalation: This product is not likely to cause an inhalation hazard at normal temperatures and pressures. Inhalation of mist or spray may be harmful and may cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of mist at airborne levels above the recommended exposure limit. Aspiration may cause pulmonary edema or aspiration pneumonia.

Indication of immediate medical attention and special treatment needed

If you feel unwell, seek medical advice/attention. Show physician this safety data sheet.

Section 5: Fire-fighting measures

Extinguishing media

Suitable: Use CO₂, dry powder, universal-type foam, and water fog

Unsuitable:

Specific hazards arising from chemical: Pressure increases may cause container to burst and material may spatter.

Special firefighting procedures: Use water spray to cool fire-exposed containers and structures.

Special protective equipment and precautions for firefighters: Wear full protective gear and a self-contained breathing apparatus with full face-piece; MSHA/NIOSH approved or equivalent; operated in positive pressure mode.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear protective clothing including gloves and eye protection when taking up spills. Eliminate any ignition sources. Evacuate untrained personnel.

Methods and materials for containment and cleaning up: Floor may be slippery. Use care to avoid falling. Cover drains and use spill dams to prevent material from spreading. Absorb large spills on an inert material such as sand or vermiculite. Universal sorbent pads may also be used. Spill clean-up materials should be collected in appropriately labeled containers for disposal. Dispose of material as required by all local, state, federal and international regulations and laws. Small spills can be mopped away with water. Never return spills to original container for re-use.

Environmental precautions: Prevent from entering sewers or drains.

Note: see section 8 for personal protective equipment and section 13 for disposal considerations.

Section 7: Handling and storage

Precautions for safe handling: Keep containers tightly closed to prevent contamination. Wear suitable personal protective equipment including gloves and splash resistant eye protection. Wash hands after use.

Conditions for safe storage, including any incompatibilities: Normal precautions should be followed in handling and storage. Keep away from heat and flame. Keep container tightly closed. Freezing of product may rupture container. Product shelf life is best retained by storage between 20°C and 32°C (68°F - 90°F).

Section 8: Exposure controls/personal protection

Occupational exposure limits/standards

Chemical name	Type	Limit values	Source
2-butoxyethanol (CAS #111-76-2)	PEL REL	240 mg/m ³ (TWA) 5 ppm	OSHA Table Z-1 NIOSH Pocket Guide to Chemical Hazards

Appropriate engineering controls: Mechanical ventilation is suggested but not normally necessary under normal usage of product.

Individual protection measures, such as personal protective equipment

Eye/face protection: Appropriate eye protection should always be worn when handling chemicals. Splash resistant eyewear is recommended when splashing is a concern.

Skin and hand protection: Wear chemical resistant gloves and protective clothing, such as long sleeves, to minimize skin contact.

Respiratory protection: No special respiratory protection is required with normal usage of product.

General hygiene considerations: Wash hands thoroughly after handling and before eating, smoking, using lavatory, and at the end of the day. Remove contaminated clothing and clean it before re-use. Do not take internally. Keep away from foodstuffs and beverages.

Section 9: Physical and chemical properties

Information on basic chemical and physical properties

Appearance: Water clear liquid with light tinge of color

Odor: Solvent, citrus-like odor

Odor threshold: Not determined

pH: 12.6 @ 20°C

Melting point/freezing point: Not determined

Initial boiling point: Not determined

Flammability (solid, gas): Not determined

Flash point: 57.2°C (135°F) by PMCC

Evaporation rate: Not determined

Fire Point: >100°C (>212°F) by COC

Upper/lower flammability or explosive limits: Not determined

Vapor pressure: Not determined

Vapor density: Not determined

Relative density (H₂O=1): 1.035 @ 20°C

Solubility in H₂O: Soluble

Partition coefficient (n-octanol/water): Not determined

Auto ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

Section 10: Stability and reactivity

Reactivity: Non-reactive when used according to specifications

Chemical stability: Stable under normal ambient conditions

Possibility of hazardous reaction: None under conditions of normal use

Conditions to avoid: Avoid high heat, flames and sparks as a precaution.

Incompatible materials: Product is normally unreactive.

Hazardous decomposition products: Burning can produce various oxides and vapors that are potentially dangerous to health.

Section 11: Toxicological information

Information on toxicological effects

This product has not undergone animal lab testing to determine toxicity. Toxicological data and local effects provided for primary substance(s) in the mixture.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-butoxyethanol (CAS #111-76-2)	1414 mg/kg (Guinea pig)	2000 mg/kg (rat)	798 mg/L; 8hr (rat)
Alcohol ethoxylate	2000 mg/kg (rat)	1000 mg/kg (rabbit)	---

Information on likely routes of exposure and toxicological effects

Skin irritation: Prolonged or repeated contact may lead to skin irritation by dermatitis.

Eye irritation: Product may be irritating to the eyes causing swelling, tearing and redness.

Inhalation: Inhalation of vapors may be irritating.

Ingestion: Ingestion of product may cause nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Product can cause skin irritation, drying and/or cracking. Contact with eyes can produce tearing, redness and stinging.

Delayed and immediate effects and also chronic effects from short- and long-term exposure

Short-term exposure: Potential immediate effects: No data

Potential delayed effects: No data

Long-term exposure: Potential immediate effects: No data

Potential delayed effects: No data

Potential chronic health effects: No data

Acute toxicity

Oral: Harmful if swallowed (category 4)

Dermal: May be harmful in contact with skin (category 5)

Inhalation: May be harmful if inhaled (category 5)

Skin sensitization: Not applicable

Respiratory sensitization: Not applicable

Specific target organ toxicity - single exposure: Not applicable

Specific target organ toxicity - repeated exposure: Not applicable

Aspiration hazard: Not applicable

Chronic toxicity

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

IARC Monographs Overall Evaluation of Carcinogenicity: Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052): Not regulated

US National Toxicology Program (NTP) Report on Carcinogens: Not listed

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects

Numerical measures of toxicity: The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral): 2125 mg/kg

ATEmix (dermal): 2005 mg/kg

ATEmix (inhalation-mist): 8.9 mg/l

Section 12: Ecological information

Ecotoxicity: There is no ecotoxicity data available for this product.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: None known

Section 13: Disposal considerations

Disposal instructions: Dispose of contents/container in accordance with appropriate local/state/federal/international environmental control regulations.

Recommendations: Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. The material may be collected at a licensed and approved chemical collection and disposal facility. Empty containers should be taken to an approved waste facility for recycling or disposal.

Section 14: Transport information

	DOT (US Road/Rail Transport)	IMDG/IMO (Sea Transport)	IATA/ICAO (Air Transport)
UN Number	Not regulated (exception: 49CFR173.120(a)(4))	Not regulated (exception: IMO IMDG 2.3.1.3.2)	Not regulated (exception: IATA DGR 3.3.1.3(b))
UN Proper Shipping Name	Not regulated	Not regulated	Not regulated
Transport hazard class	Not regulated	Not regulated	Not regulated
Packing group	None	None	None
Environmental hazards	None	None	None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable

Special precautions for user: Always transport in closed containers that are upright and secure to prevent accidental spillage.

Section 15: Regulatory information

Safety, health, and environmental regulations/legislation specific for the substance/mixture

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D): Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated

SARA 304 Emergency release notification: Not regulated

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052): Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories:

- Fire hazard – Yes – flammable liquid and vapor
- Pressure hazard – No
- Reactivity hazard – No
- Immediate-Acute health hazard – Acute toxicity, skin irritation, eye irritation
- Delayed-Chronic health hazard – No

SARA 302/304 Extremely hazardous substance: Not regulated

SARA 313 (TRI reporting): Not regulated

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): Not regulated

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130): Not regulated

Safe Drinking Water Act (SDWA): Not regulated

US state regulations

US California Controlled Substances CA Department of Justice (California Health and Safety Code Section 11100): Not listed

US California Proposition 65: This product does not contain any substances currently listed as carcinogens or reproductive toxins.

US New Jersey RTK: 2-butoxyethanol listed

US Massachusetts RTK Substance List: No listed chemicals

US Pennsylvania Worker and Community Right-to-Know Law: 2-butoxyethanol listed

US Rhode Island RTK: 2-butoxyethanol listed

US New York RTK: No listed chemicals

US Minnesota RTK: 2-butoxyethanol listed

International Inventories

Country/Region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory (NZIoC)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Inventory (TCSI)	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "yes" indicates that all components of this product comply with inventory requirements administered by the governing country(s).

A "no" indicates that one or more of the components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s).

Section 16: Other information, including date of preparation or last revision

Full text of H-phrases, if any, with number appearing in section 3:

H226: Flammable liquid and vapor.
H312: Harmful in contact with skin.

H302: Harmful if swallowed.
H315: Causes skin irritation.

H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long-lasting effects.

H318: Causes serious eye damage.
H332: Harmful if inhaled.
H401: Toxic to aquatic life.
H412: Harmful to aquatic life with long-lasting effects.

HMIS III Rating

Health: 2
Flammability: 2
Physical Hazard: 0
Personal Protective Equipment (PPE): D

NFPA Rating

Health: 2
Flammability: 2
Reactivity: 0
Special Hazards: None

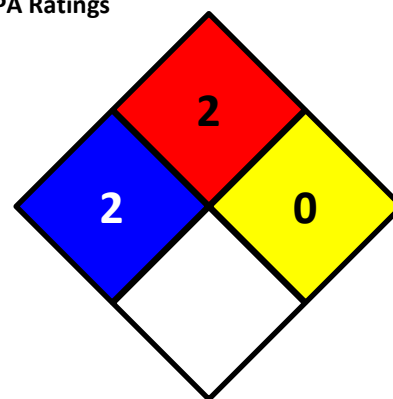
Hazard Rating Legend

0: Minimal Hazard
1: Slight Hazard
2: Moderate Hazard
3: Serious Hazard
4: Severe Hazard

HMIS III Ratings

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PPE	D

NFPA Ratings



SDS: Defense-C Lane Cleaner

Product ID: 156-8405

SDS Revision Level: 5.0

SDS Revision Date: 1 October 2019

Revision Reason(s): Updated to most current regulations

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