

1. Identification of the substance/preparation and of the company/undertaking

Product Name: Defense-CX4 Lane Cleaner
Other Means of ID: None
Part Number: 156-8425
Recommended Use: Super Concentrated Bowling Lane Cleaner
Restrictions on Use: None
Manufacturer: Kegel LLC
 1951 Longleaf Blvd
 Lake Wales, FL 33859, USA
Emergency Phone: (863) 734-0200
 (800) 280-2695

2. Hazards identification

Classification: This product is considered hazardous according to 29 CFR 1910.1200



Pictogram(s)/Symbol(s): GHS02, GHS07
Signal Word: Warning
 Eye Irritant Category 2
 Skin Irritant Category 2
 Flammable Liquid Category 3

Hazard statements

H226: Flammable liquid and vapor.
 H319: Causes serious eye irritation.
 H315: Causes skin irritation.
 H303: May be harmful if swallowed.
 H313: May be harmful if in contact with skin.
 H333: May be harmful if inhaled.

Precautionary Statements

Prevention: P210: Keep away from flames, sparks and hot surfaces. No smoking.
 P233: Keep container tightly closed.
 P242: Use non-sparking tools.
 P243: Take precautionary measures against static discharge.
 P264: Wash hands thoroughly after handling.
 P280: Wear protective gloves and splash resistant eye protection (goggles).
Response: P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if easy to do, and continue rinsing.
 P337+P313: If eye irritation persists, get medical attention.
 P302+P352: If on skin, wash with plenty of soap and water.
 P321: No specific treatment is anticipated.
 P332+P313: If skin irritation occurs, get medical attention.
 P362: Take off contaminated clothing and wash before reuse.
 P370+P378: In case of fire, use an ABC fire extinguisher or equivalent for chemical fires.
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

Unknown toxicity: Approximately 4% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on ingredients

Substance/preparation (mixture) preparation (mixture)

Chemical name*	CAS Number	Concentration (%)	EC Number	Classification*
Water	7732-18-5	40-51 ⁺	231-791-2	---
Surfactant blend [†]	Proprietary	20-29 ⁺	---	---
2-butoxyethanol	111-76-2	10-15 ⁺	203-905-0	Xn; R20/21/22; Xi; R36/38
D-limonene	5989-27-5	3-5 ⁺	227-813-5	R10; Xi; R38; R43; N; R50/53

[†]Exact percentages (concentrations) and/or specific chemical identity have been withheld as trade secret.

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

4. First Aid Measures



Skin Contact: No emergency care anticipated. Wash skin with soap and water. Remove any contaminated clothing and wash clothing before reuse. If irritation persists, seek medical attention.

Eye Contact: No emergency care anticipated. 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. It is not expected that this product will be toxic by ingestion. Seek medical attention as necessary. Never give anything by mouth to an unconscious person.

Inhalation: Remove from further exposure. 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. Remove to fresh air if aerosol spray is inhaled.

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 irritation of the nose, throat and upper respiratory tract. Other pulmonary effects may be caused by prolonged or repeated inhalation of mist.

Indication of Immediate Medical Attention and Special Treatment Needed

Physicians should treat symptomatically. Show physician this safety data sheet.

5. Fire Fighting Measures

Flash Point: 54°C (129.2°F)

Method: PMCC

Fire Point: >100°C (>212°F)

Method: COC

Extinguishing Media

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

Unsuitable:

Special Hazards Arising from Chemical: Material may splatter if temperature exceeds boiling point. Polymer film can burn.

Hazardous Combustion Products: Burning can produce soot, carbon dioxide, carbon monoxide, and other oxides.

Special Fire Fighting Procedures: Use water spray to cool fire-exposed containers and structures.

Special Protective Equipment 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.

6. Accidental Release Measures

Personal Precautions: Wear protective clothing including gloves and eye protection when taking up spills. Eliminate any ignition sources as a precaution.

Environmental Precautions: This product is soluble in water and can be diluted with large amounts of water. Prevent concentrated product from entering sewers or drains.

Methods for Containment and Clean-up: Floor may be slippery. Use care to avoid falling. Cover drains and use spill dams to prevent material from spreading. Absorb spill on an inert material such as sand, earth, 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.

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

7. Handling and Storage

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

Safe Storage Requirements: Normal precautions should be followed in handling and storage. Store product in a cool, dry place. 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 10°C and 37°C (50°F - 98°F).

8. Exposure Controls/Personal Protection

Engineering Measures: Mechanical ventilation is suggested but not normally necessary under normal usage of product.

Hygiene Measures: 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.

Respiratory Protection: No special respiratory protection is required with normal usage of product. If vapor and/or mist are generated by heating, spraying, etc., wear an organic vapor respirator.



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

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

Exposure Limits

Component	Type	Value	Remark
2-butoxyethanol	TWA, OSHA PEL	240 mg/m ³	

9. Physical and Chemical Properties

Appearance: Water clear liquid with orange color

Odor: Solvent/citrus-like odor

Odor threshold: Not determined

Specific Gravity (H₂O=1): 1.028 @ 22.5°C

Density (lbs/gal): 8.57 @ 22.5°C

pH: 12.8 @ 22.5°C

Melting/freezing point: Not determined

Initial boiling point/boiling range: Not determined

Solubility in H₂O: Soluble

Evaporation rate: Not determined

Vapor Pressure: Not determined

Vapor Density: Not determined

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

Viscosity: Not determined

Flash Point: 54°C (129.2°F)

Method: PMCC

Fire Point: >100°C (>212°F)

Method: COC

Flammability (solid, gas): Not determined

Explosive limits: Not determined

Auto ignition temp.: Not determined

Decomposition temp.: Not determined

10. Stability and Reactivity

Stability: Stable

Reactivity: Non-reactive when used according to specifications

Possibility of Hazardous Reactions: None under normal processing

Conditions to avoid: No decomposition is expected during normal use. Avoid high heat, flames and sparks as a precaution.

Incompatible Materials: Product is normally unreactive.

Hazardous Decomposition Products: Burning can produce soot, carbon dioxide, carbon monoxide and other oxides.

Hazardous Polymerization: Will not occur

11. Toxicological Information

This product has not undergone animal lab testing to determine toxicity. Specific test data for the preparation/mixture is not available. Toxicological data and local effects based on primary ingredient(s)/component(s):

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-butoxyethanol (111-76-2)	>1.2 g/kg (Guinea pig)	>2000 mg/kg (Guinea pig)	>663 ppm; 1 hr (Guinea pig)
D-limonene (5989-27-5)	>5 g/kg (rat)	>5 g/kg (rabbit)	---

Information on Likely Routes of Exposure and Toxicological Effects

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

Inhalation: Inhalation of mist or spray may be irritating.

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

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

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

ATEmix (oral): 2131 mg/kg

ATEmix (dermal): 2406 mg/kg

ATE mix (inhalation): 663 ppm

12. Ecological Information

There is no ecotoxicity data available for this product. This product is not expected to be inherently biodegradable based on information available for chemical components. This product, especially in its concentrated form, should be kept out of sewage and drainage systems and all bodies of water as a precaution as the toxicity of this material to aquatic organisms has not been evaluated.

13. Disposal Considerations

Methods of Disposal: Dispose of all waste in accordance with appropriate international, federal, state and local environmental control regulations.

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

14. Transport Information



UN Number: None

Proper shipping name/Technical name: Not regulated

DOT/ADR/RID (Road/Rail Transport): This product is not classified as flammable for shipping by DOT/ADR/RID (49 CFR 173.120(a)(4)).

IMDG/IMO Classification (Sea Transport): This product is not classified as flammable for shipping by IMDG/IMO (IMDG 2.3.1.3.2).

ICAO/IATA Classification (Air Transport): This product is not classified as flammable for shipping by ICAO/IATA (IATA DGR 3.3.1.3(b)).

15. Regulatory Information

US Regulations: This preparation is classified as a hazardous chemical; a flammable liquid, category 3, and an irritant; as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

State Regulations - California: WARNING: This product may contain a chemical known to the State of California to cause cancer and birth defects or other reproductive harm: ethylene oxide.

EU Regulations: The preparation is classified as dangerous; a flammable and an irritant preparation; according to Directive 1999/45/EC and its amendments.

Safety Phrase(s):

S2: Keep out of the reach of children.

S24/25: Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39: Wear eye/face protection

16. Other Information

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

Xn: Harmful

Xi: Irritant

N: Dangerous for the environment

R10: Flammable

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R36/38: Irritating to eyes and skin

R43: May cause sensitization by skin contact

R50-53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

HMIS III Rating

Health: 1

Flammability: 2

Physical Hazard: 1

PPE: B

NFPA Rating

Health: 1

Flammability: 2

Instability: 0

Special Hazards: None

Hazard Rating Legend

0: Minimal Hazard

1: Slight Hazard

2: Moderate Hazard Special

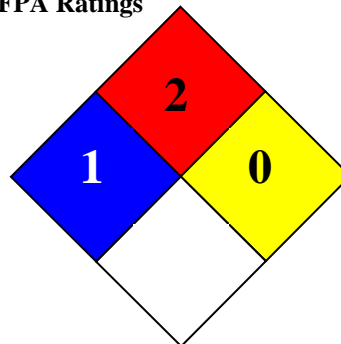
3: Serious Hazard

4: Severe Hazard

HMIS III Ratings

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	1
PROTECTIVE EQUIPMENT	B

NFPA Ratings



SDS: Defense-CX4 Lane Cleaner

Product ID: #156-8425

SDS Revision Level: 3.0

SDS Revision Date: 6 May 2015

Revision Reason(s): Updated language for GHS compliance

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