



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

Product Name: Defense-Cx4
Product Description: Butyl Blend Cleaner Concentrate
Use: Bowling Lane Cleaner
Manufacturer: Kegel LLC
1951 Longleaf Blvd
Lake Wales, FL 33859, USA
Emergency Phone: (863) 734-0200
(800) 280-2695

2. Composition/information on ingredients

Substance/preparation: preparation

| Chemical name* | CAS Number | Concentration (%) | EC Number | Classification |
|------------------|-------------|-------------------|-----------|------------------------------|
| Water | 7732-18-5 | 45-50 | 231-791-2 | --- |
| Surfactant Blend | Proprietary | 30-34 | --- | --- |
| 2-Butoxyethanol | 111-76-2 | 12-15 | 203-905-0 | Xn; R20/21/22; Xi; R36/38 |
| STPP | 7758-29-4 | 0-1 | 231-838-7 | --- |

See section 16 for the full text of the R phrases declared above.

*Occupational Exposure Limit(s), if available, are listed in section 8.

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Specific Hazards**Ingestion**

Acute Effects: Ingestion can cause irritation to gastrointestinal tract. Symptoms may include nausea, vomiting, and diarrhea. May cause systemic poisoning with symptoms paralleling those of inhalation.

Skin Absorption/Contact

Acute Effects: May cause irritation with redness and pain. May be absorbed through the skin with systemic effects.

Inhalation

Acute Effects: Can cause irritation to respiratory tract. Symptoms may include sore throat, coughing, headache, nausea, and shortness of breath. Inhalation of mist or spray may be harmful.

Eye Contact

Acute Effects: Vapors are irritating and may produce immediate pain, redness, and tearing. Splashes can cause severe eye pain, stinging, swelling.

Chronic Effects: May cause liver and kidney damage. Chronic exposure may cause blood effects. Chronic exposure may cause effects similar to those of acute exposure.

4. First Aid Measures

Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Skin Contact

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately. If wearing contact lenses, remove lenses and flush eyes for several minutes. If discomfort persists, seek medical attention.

5. Fire Fighting Measures

Flash Point: 54°C (129.2°F)

Method: PMCC

Extinguishing Media



Suitable: **Small fires:** CO₂, Dry Powder, Foam
Large Fires: Alcohol type foam or universal-type foam, Water fog
 Unsuitable: Water may be ineffective.

Special Fire Fighting Procedures

Use water spray to cool fire-exposed containers and structures.

Special Protective Equipment for Firefighters

Body covering protective clothing, full “turn-out” gear. Self-contained breathing apparatus with full face-piece operated in positive pressure mode.

Unusual Fire and Explosion Hazards

Material may splatter if temperature exceeds boiling point. Polymer film can burn.

6. Accidental Release Measures

Personal Precautions

Wear protective clothing when taking up spills. Eliminate any ignition sources.

Environmental Precautions

Prevent from entering sewers or drains.

Methods for Clean-up

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches, which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

7. Handling and Storage

Handling Precautions

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Keep away from heat and flame. Avoid breathing vapor or mist.

Storage Requirements

Normal precautions should be followed in handling and storage. Store in a cool dry place. Keep away from heat and flame. Keep container tightly closed.

Other Precautions

Freezing of product may rupture container. Product shelf life is best retained by storage at 10°C – 37°C.

8. Exposure Controls/Personal Protection

Engineering Measures

Mechanical ventilation is suggested. At least 10-air changes/hour are recommended. Engineering controls are not normally necessary if good hygiene practices are followed.

Hygiene Measures

Wash hands thoroughly after handling compounds 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.

Respiratory Protection

No special, respiratory protection is normally required.

Hand Protection

Wear appropriate protective gloves to prevent skin exposure.

Eye Protection

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

Skin Protection

Wear protective clothing, such as long sleeves, to minimize skin contact.

Exposure Limits

| Component | Type | Value | Remark |
|-----------------|----------------------|-------|--------|
| 2-butoxyethanol | TWA (mist), ACGIH | 20ppm | |

9. Physical and Chemical Properties

Physical State: Liquid
Color: Slightly tinged and clear
Odor: Solvent-like odor
Boiling Point: N/A
Specific Gravity (H₂O=1): 0.994 @ 20°C
Viscosity (cSt): 5.62 @ 38°C
pH: 12.7
Vapor Pressure (mmHg): N/A
Solubility in H₂O: soluble
Flash Point: 54°C (129.2°F) **Method:** PMCC



10. Stability and Reactivity

Stability: Stable

Incompatible Materials

Normally unreactive, however avoid contact with high heat or temperatures and ignition sources.

Hazardous Combustion Products

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization

Will not occur.

11. Toxicological Information

This product has not undergone animal lab testing to determine toxicity.

Local Effects

Skin irritation: Prolonged or repeated contact may lead to skin irritation and/or inflammation.

Inhalation: Inhalation of mist or spray may be harmful.

12. Ecological Information

There is no ecotoxicity data available for this product.

13. Disposal Considerations

Methods of Disposal

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

14. Transport Information

UN Number

None

ADR/RID (Road/Rail Transport)

This product is not regulated by ADR/RID.

IMDG Classification (Sea Transport)

This product is not regulated by IMDG.

ICAO/IATA Classification (Air Transport)

This product is not regulated by ICAO/IATA.

Shipping Name

Defense-Cx4

15. Regulatory Information

EU Regulations

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Safety Phrase(s): S2: Keep out of the reach of children

S37: Wear suitable gloves.

S39: Wear eye/face protection.

16. Other Information

Full text of R-phrases with number appearing in section 2:

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

R36/38: Irritating to eyes and skin.

Xi: Irritating

Xn: Harmful



NFPA Rating

Health: 1
Fire: 2
Stability: 0

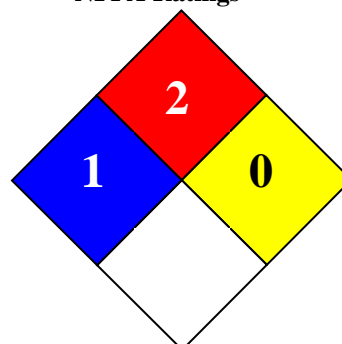
Hazard Legend

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

HMIS Ratings

| | |
|-----------------------------|----------|
| HEALTH | 1 |
| FLAMMABILITY | 2 |
| INSTABILITY | 0 |
| PROTECTIVE EQUIPMENT | B |

NFPA Ratings



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