

CYMEX[®]

Bed bug contact kill.

THE FAST SOLUTION TO BED BUGS.



Cymex is a ready-to-use specifically formulated liquid borate product that kills bed bugs, fleas, dust mites and carpet beetles on contact. The product also provides long-term residual protection to kill and prevent infestations of fleas, dust mites and carpet beetles. Cymex can be used as part of a Green Pest Management[®] program and provides effective control for insects.



Cymex is a borate-based liquid that kills bed bugs, fleas and other pests on contact. It can be used on mattresses as well as many other surfaces where pests hide.

- Kills bed bugs, fleas and dust mites on contact.
- Provides residual protection against fleas, dust mites, carpet beetles and household fungus.
- No known resistance.
- Non-foaming, no odor.
- Can be used in a Green Pest Management program.
- Clean up tools with soap and water.
- Can be applied to floors, pet bedding, carpeting, furniture and mattresses.
- For residential and commercial use, including:
 - apartments, boats, factories, food processing plants, garages, homes, hospitals, hotels, kennels, motels, offices, restaurants, schools, supermarkets, trains, trucks, veterinary areas, warehouses and zoos.

Visit www.nisuscop.com for the complete line of green products.

100 Nisus Drive ■ Rockford, TN 37853 ■ (800) 264-0870 ■ www.nisuscop.com

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Smart Pest Control Solutions

CYMEX[®]

- Kills and Prevents Fleas • Kills Bed Bugs on Contact
- Also Controls and Prevents Carpet Beetles, Dust Mites and Household Fungus (Regular Mildew)

For Use In Apartments, Boats, Factories, Food Processing Plants, Garages, Homes, Hospitals, Hotels, Kennels, Motels, Offices, Restaurants, Schools, Supermarkets, Trains, Trucks, Veterinary Areas, Warehouses and Zoos.

ACTIVE INGREDIENT:

Disodium Octaborate Tetrahydrate (CAS No. 12280-41-2)..... 8.5%

OTHER INGREDIENTS 91.5%

TOTAL 100.0%

EPA Reg. No. 64405-6 EPA Est. 64405-TN-1

Keep Out of Reach of Children

CAUTION

Notice

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read **Warranty Disclaimer** and **Limitation of Remedies** statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer** and **Limitation of Remedies**.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Product Information

Do not use in edible product areas of food handling establishments, restaurants or other places where food is commercially prepared. Do not use in serving areas while food is exposed. Do not contaminate feed and foodstuffs. Do not enter or allow others to enter treated areas until spray has dried. Treated areas must not be occupied during application. In hospitals, patients must be removed prior to treatment of the area. Ventilate area for 2 hours before returning patients.

Do not apply CYMEX to wood floors, linoleum or ceramic tile surfaces due to the possible creation of a slippery surface or light residue. Do not walk on surfaces treated with CYMEX until completely dry. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Application Instructions

Fleas: Thoroughly vacuum all furniture, upholstery, carpeting, rugs and pet bedding before application. Seal and discard vacuum bag and collected debris. Remove people and pets during product application and allow treatment to completely dry before reintroducing people or pets into treated areas. Best results are obtained when combined with a simultaneous treatment of pets using a product approved for use on pets. Although CYMEX will kill adult fleas within 48 to 72 hours, better knock-down of adult fleas may be obtained by simultaneous use of another approved insecticide.

Apply to carpets, area rugs, draperies, upholstery and floor cracks. Apply using a fine, uniform spray to carpets and area rugs at the rate of 1 gallon of solution per 750 to 1,250 square feet of surface, depending upon density and thickness. **Treat to dampness but do not saturate.** Entire rug and carpeting areas may be treated.

Pay particular attention to application of pet bedding and resting areas. Apply in cracks and crevices along baseboards and around floor coverings as well as under furniture and furniture cushions. Cement and concrete floors may also be treated using a rate of 1 gallon of solution per 1,250 square feet of surface area.

Note: Freshly treated concrete floors may be slippery.

Carpet Beetles, Dust Mites and Household Fungus (Regular Mildew): Thoroughly vacuum before treatment and seal and discard bag with collected debris. Apply as a fine, uniform spray to affected areas of carpets, rugs or upholstery at the rate of 1 gallon of solution per 750 to 1,250 square feet of area, depending upon density and thickness. **Treat to dampness but do not saturate.** Entire areas of rugs and carpeting may be treated.

To Kill Bed Bugs: Apply at a rate of 3 – 5 oz per square foot of treatment area. Apply as a contact treatment onto active bedbug infestations in cracks and crevices on and around baseboards, floorboards, bed frames, headboards, furniture, window frames, door frames, walls, wall hangings and millwork. Apply as a topical spray application to mattresses, box springs, carpets, walls, furniture, rugs and other floor coverings. Treat folds, seams and tufts in mattresses, sofas and other furniture where bedbugs harbor.

Do not apply as a surface spray to wood floors, linoleum or ceramic tiles due to the possible creation of a slippery surface or light residue. Do not walk on, lay or sit on treated surfaces until dry. Always test fabrics for color fastness before application by treating in an inconspicuous area first.

Cleanup: Use soap and water to clean up tools.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Storage: Store in a dry place. Do not store where children or animals may gain access. Protect from freezing. **Pesticide**

Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Management: Non-refillable container; do not reuse or refill this container. Offer for recycling, if available, or reconditioning, if appropriate; otherwise, call your local solid waste agency for disposal instructions. Promptly triple rinse (or equivalent) container after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

WARRANTY LIMITATIONS AND DISCLAIMER

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. **TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

Inherent Risks of Use

The directions for use of this product are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such

factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of use/application, all of which are beyond the control of the Manufacturer. The buyer/user assumes all such risks.

Limitation of Remedies

To the extent not prohibited by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and b) **IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any applicable patent, whether mentioned or not, without procurement of a license, if necessary, from the owner, following investigation by the user.



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Rockford, TN 37853 USA
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SAFETY DATA SHEET

CYMEX[®]Health Emergencies: CHEMTREC[®] (800) 424-9300

1. PRODUCT AND COMPANY INFORMATION

Product Identity: Cymex[®]**Recommended use of the chemical and restrictions on use:** Use as a deodorizer for most organic source odors.**Manufacturer:** Nisus Corporation
100 Nisus Drive
Rockford, TN 37853**Telephone:** Phone: (800) 264-0870
Fax: (865) 577-5825**Emergency Phone:** 800-424-9300 (CHEMTREC)**SDS Date of Preparation:** 04/28/15

2. HAZARDS IDENTIFICATION

GHS Classification:

Health

Reproductive Toxicity
Category 2**GHS Label Elements:****Signal Word:** Warning!**Statements of Hazard**

H303: May be harmful if swallowed.

H361: Suspected of damaging fertility or the unborn child.

Precautionary Statements

P202: Do not handle until all safety precautions have been read and understood.

P308+P313: If exposed or concerned: Get medical advice/attention.

P501: Dispose of contents/container in accordance with local regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Disodium octaborate tetrahydrate	12280-41-2	8.5%
Non-Hazardous Ingredient	Proprietary	91.5%

The exact formulation is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Rinse thoroughly with plenty of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.**Skin:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.**Ingestion:** Do not induce vomiting unless directed to do so by a medical professional. Get medical attention for large ingestions or if symptoms develop or if you feel unwell.**Inhalation:** Move victim to fresh air. If breathing is difficult or irritation persists, get medical attention.**Most important Symptoms:** May cause slight eye irritation. Mist may cause irritation to nose and throat.**Indication of immediate medical attention/special treatment:** Immediate medical attention should not be required.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate for surrounding fire.**Specific hazards arising from the chemical:** Burning may produce carbon monoxide and carbon dioxide.**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Contain runoff.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency**Procedures:** Wear appropriate protective clothing as described in Section 8. Do not apply directly to water or contaminate water.**Methods and Materials for Containment and Cleaning Up:** Collect with an inert absorbent and place in appropriate containers for disposal. Clean spill area thoroughly. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing mists. Wear protective clothing and equipment as described in Section 8. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Keep containers closed when not in use. Do not contaminate water, food, or feed storage. Refer product label for additional information on use and handling.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry (preferably locked) storage area away inaccessible to children and pets. Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Disodium octaborate tetrahydrate	2 mg/m ³ TWA ACGIH TLV (inhalable) 6 mg/m ³ STEL ACGIH TLV (inhalable)
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Engineering Controls: Use with adequate ventilation to maintain exposure levels below the occupational exposure limits. Refer product label for additional information.**Respiratory Protection:** In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.**Skin Protection:** Use water-proof gloves for normal application of this product.**Eye Protection:** Wear safety glasses to prevent eye contact.**Other:** Wear long-sleeve shirts, long pants, socks and shoes when using this product. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Clear liquid with no odor. Detergent.**Physical State:** Liquid**Odor Threshold:** Not established**Vapor Density:** Not Determined**Initial Boiling Point/Range:** Not determined**Solubility In Water:** 100%**Vapor Pressure:** Negligible (<1)**Relative Density:** 1.06 g/mL**Evaporation Rate:** Not determined**Melting/Freezing Point:** Not determined**pH:** 6.8-7**Percent Volatile:** >89% average as water and other volatiles**Octanol/Water Coefficient:** Not determined**Solubility:** Water**Decomposition Temperature:** Not determined**Viscosity:** Not determined

Flammability (solid, gas): Not determined
Flashpoint: >212°F **Autoignition Temperature:** None
Flammable Limits: LEL: Not determined **UEL:** Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive, not corrosive to metal
Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: None known.

Incompatible Materials: Oxidizing agents may cause pitting of aluminum.

Hazardous Decomposition Products: When heated to decomposition emits oxides of carbon.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Ingestion: May be harmful if large quantities are ingested.

Inhalation: Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.

Eye: May cause slight irritation.

Skin: Not expected to cause irritation.

Chronic: Borates have been shown to have some chronic toxicity in animals fed high doses, but this has not been found in humans.

Sensitization: This material is not expected to cause sensitization.

Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Germ Cell Mutagenicity: No data available

Reproductive Toxicity: Borates have been found to have some reproductive toxicity in animals, but this has not been found in humans.

Numerical Measures of Toxicity:

Product Toxicity Data:

Oral rat LD₅₀: >5000 mg/kg; Dermal rabbit LD₅₀: >2000 mg/kg;

Inhalation rat LC₅₀: 5.06 mg/l/4 hrs

12. ECOLOGICAL INFORMATION

This product breaks down naturally in the environment to provide organic matter and boron micro nutrients. Boron occurs naturally in sea water at an average concentration of 5 mg B/l and fresh water at 1 mg B/l or less. In dilute aqueous solutions the predominant boron species present is undissociated boric acid.

Ecotoxicity:

EC₁₀ Green algae: 24 mg B/l/96 hr; LC₅₀ Daphnia magna: 242 mg B/l/96 hr; LC₅₀ Dab: 74 mg B/l/48hr; LC₅₀ Rainbow trout: 88 mg B/l/24hr; LC₅₀ Goldfish: 71 mg B/l/72hr

Persistence and Degradability: Boron is naturally occurring and ubiquitous in the environment. Cymex® decomposes in the environment to natural borate.

Bioaccumulative Potential: Not determined.

Mobility in Soil: Boric acid is soluble in water and is leachable through normal soil.

Other Adverse Effects: Some plants are sensitive to boron. Avoid released into the environment. This product is designed to be used for certain types of organisms. Use product only as directed on the label. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. See product label for full instructions and restrictions on use.

13. DISPOSAL CONSIDERATION

Dispose in accordance with local, state and federal environmental regulations. Do not contaminate water when disposing of washwaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, ocean, or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your state water board or regional office of the EPA.

Non-refillable container; do not reuse or refill this container. If empty, place in trash or offer for recycling if available. If partly filled, call your

local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. TRANSPORTATION INFORMATION

DOT Hazardous Materials Description: Not Regulated

15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Labeling:

Cymex
EPA Reg. No. 64405-6
Keep Out of Reach of Children
CAUTION

Precautionary Statement: Hazardous to Humans and Domestic Animals

CERCLA: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA Hazard Category (311/312): Not hazardous

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

EPA TSCA Inventory: This product is regulated under FIFRA, thus exempt.

16. OTHER INFORMATION

NFPA Rating:

Health = 0 Flammability = 0 Instability = 0

HMIS Rating:

Health = 1 Flammability = 0 Physical Hazard = 0

SDS Revision History: 02/13/14: New SDS
04/28/15: Revised

WARRANTY DISCLAIMER

The information, data and recommendations contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof. With respect to this publication and the product related thereto, unless otherwise expressly provided by Manufacturer in writing, **MANUFACTURER MAKES NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

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- Replacement of amount of product used.

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