

2K7 BUGSTICK

A solid form microbiocide for use in controlling the growth of sulphate reducing and slime forming bacteria in industrial applications.

Active ingredient:	% w/w
2-bromo-2-nitropropane-1,3-diol	84.5
Inert ingredients	15.5
Total	100.0

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

- If swallowed - Drink large quantities of water. Do not administer liquids to an unconscious person. Call a physician.
- If inhaled - Remove person to fresh air.
- If on skin - Immediately flush skin with plenty of water for 15 minutes.
- If in eyes - Immediately flush eyes with plenty of water for 15 minutes. Call a physician.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA REG. NUMBER 33753 - 18
EPA EST. NUMBER 67420-CN-01

NET CONTENTS
13 LB (5.9 KG) - 50 STICKS

Knoll Pharmaceuticals
Nottingham NG2 3AA, United Kingdom

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes eye and skin damage. Do not get in eyes, on skin or clothing. Wear long sleeve shirt and long pants, socks plus shoes. Wear goggles or face shield and chemical resistant rubber gloves when handling. Do not apply this product in a way that will contact workers or other persons. May be fatal if swallowed. May cause allergic skin reactions in certain individuals. Wash thoroughly with soap and water after handling. Discard clothing or other absorbent materials that have been heavily contaminated with this product's concentrate. Do not reuse them. Remove lightly contaminated clothing and wash separately from other laundry using detergent and hot water before re-use.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters 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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste.

ACCEPTED

OCT 16 1997

Under the Federal Insecticide, Fungicide, and
Rodenticide Act as amended, for the
pesticide registered under
EPA REG. NO. 33753-18

PM 33

33753-18

10/16/97

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DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELLING.

GENERAL INSTRUCTIONS

2K7 BUGSTICK is a solid form microbiocide for use in controlling the growth of sulphate reducing and slime forming bacteria in oil and gas processing, metal working fluids, industrial recirculating water and paint, latex and antifoam system.

2K7 BUGSTICK is typically recommended at 100 ppm active ingredient which is equivalent to 1 stick per 1000 litres or 250 gallons. For each application area the dose can vary from 15 to 1000 ppm active ingredient. Refer to specific directions for use.

If a heating stage is involved during manufacture or processing add 2K7 BUGSTICK when the temperature has cooled to below 40° C.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Keep away from heat.

PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Inner package is water soluble. Dispose of empty outer package in a sanitary landfill, or by incineration, if allowed by State and local authorities. If burned, stay out of smoke.

OIL AND GAS APPLICATIONS

Use a weekly shock dose of one stick per 250 gallons based on the water content of the system until control is achieved. Thereafter, use a maintenance dose, once or twice weekly, of one stick per 1000 gallons.

In Gas Wells: apply through the wellhead valving system so product drops down tubing.

In Oil Wells: drop product down tubing when sucker rods are pulled.

In Storage Tanks: drop through thief hatch.

Re-treat with a weekly shock dose if re-contamination is observed. Do not apply directly with oxygen scavengers, but treat alternatively.

METAL WORKING FLUIDS

2K7 BUGSTICK is recommended for use in soluble oils, semi-synthetic and synthetic fluids. It should be added directly to the sump (with agitation) and the system should be circulated for about one hour before shutdown.

Use 3 to 10 sticks per 250 gallons of the fluid by application directly into the sump. A subsequent, weekly dose of one stick per 250 to 125 gallons is recommended to maintain control.

INDUSTRIAL RECIRCULATING WATER

2K7 BUGSTICK may be dosed directly into the sump or basin or it may be added to the cooling water return at a suitable point. The dosing point should be located where there is adequate flow or turbulence to ensure quick dissolution and rapid dispersal around the system (eg. the pump outlet from the tower sump).

A shock dose of one stick per 250 gallons should be added to the cooling water once or twice weekly. Thereafter, use a weekly maintenance dose of one stick per 500 to 1500 gallons.

PAINTS, LATEX AND ANTIFOAM EMULSION SYSTEMS

To provide in-can preservation and growth inhibition of bacteria in wash waters and during storage of emulsion concentrates and latex emulsion based paints. Also for the preservation of silicone and other antifoam emulsion systems.

2K7 BUGSTICKS should be added to the aqueous phase at any convenient point during the manufacturing process, preferably where there is product agitation. They may be added as a final step prior to packing of the product into bulk or sales packs, but allowing sufficient time for dissolution and dispersion.

Dose 2K7 BUGSTICKS at 4 to 19 sticks/1000 gallons of the final formulation volume.

INDUSTRIAL AND/OR COMMERCIAL AIR WASHERS, AIR CONDITIONING AND HUMIDIFYING SYSTEMS

For the control of bacterial and algal growth and to remove slime deposits. Dose into the water sump on a routine basis once per week or month. Heavily fouled systems may require twice weekly treatment.

Initially dose with 1 stick per 500 gallons. Subsequent dosing can be reduced by half.

Intermittent treatment during regular maintenance and cleaning using 1 stick per 250 gallons is also recommended with a contact time of at least one hour.

For smaller systems (250 gallons) one stick may be broken in half and then added.

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