

US EPA ARCHIVE DOCUMENT



R.E.D. FACTS

Pesticide Reregistration

Nuosept 145®

All pesticides sold or distributed in the United States must be registered by EPA, based on scientific studies showing that they can be used without posing unreasonable risks to people or the environment. Because of advances in scientific knowledge, the law requires that pesticides which were first registered years ago be reregistered to ensure that they meet today's more stringent standards.

In evaluating pesticides for reregistration, EPA obtains and reviews a complete set of studies from pesticide producers, describing the human health and environmental effects of each pesticide. The Agency imposes any regulatory controls that are needed to effectively manage each pesticide's risks. EPA then reregisters pesticides that can be used without posing unreasonable risks to human health or the environment.

When a pesticide is eligible for reregistration, EPA announces this and explains why in a Reregistration Eligibility Decision (RED) document. This fact sheet summarizes the information in the RED document for reregistration case 3052, [[[2-dihydro-5-methyl-3(2H)-oxazolyl)-1-methylethoxy]methoxy]methoxy] methanol, hereafter referred to as Nuosept 145® (formerly known as Cosan 145®).

Use Profile

Nuosept 145® is a liquid organic preservative registered for industrial indoor, non-food use in latex paint (in can), resin emulsions, building adhesives, dispersed colors, pigment slurries and ready-to-mix joint cements. This microbiocide/microbiostat is used to control slime-forming bacteria and fungi. The two application methods for Nuosept 145® include open pouring and closed delivery systems.

Current use practice limitations prohibit discharge of effluent containing Nuosept 145® into streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in a National Pollutant Discharge Elimination System (NPDES) permit and the sewage treatment plant authority has been notified. After the biocide has been added to a product, it should not be subject to temperatures above 175° F. Finally, Nuosept 145® must not be used in connection with feed, food or drinking water.

Regulatory History

The Agency first registered a pesticide product containing [[[2-dihydro-5-methyl-3(2H)-oxazolyl)-1-methylethoxy]methoxy]methoxy] methanol, referred to as Cosan 145®, in 1983. The registration was sold and renamed Nuosept 145®. The original uses registered are the same uses included under the Reregistration Eligibility Decision for Nuosept 145®. Currently, there is only one end use product registered containing Nuosept 145® technical as the (sole) active ingredient.

Human Health Assessment

Toxicity

Nuosept 145® technical is highly acutely toxic and can cause severe respiratory, eye and skin effects. It is classified in Toxicity Category I for acute inhalation toxicity and primary eye and skin irritation (Category I indicates the highest level of acute toxicity). Nuosept 145® poses minimal mutagenicity risks and no subacute, chronic or developmental toxicity concerns.

Dietary Exposure

There are no food uses for Nuosept 145®, therefore, no dietary exposure is expected.

Occupational and Residential Exposure

The current Nuosept 145® product label permits application by open pouring and closed delivery system. Handlers using open pouring methods without Personal Protective Equipment (PPE) face potential respiratory, eye and skin effects from exposure to this acutely toxic pesticide. Application via closed delivery systems significantly reduces potential exposure and risk.

Human Risk Assessment

Nuosept 145® is not registered for any food or feed related uses, so no dietary risks are posed.

There are no health concerns for residential exposure or for long-term occupational exposure. However, there is a potential for acute respiratory, skin and eye effects from occupational exposure to the Nuosept 145® technical, particularly from the open pouring method of application. Therefore, the Agency is requiring the use of PPE for handlers using this method of application.

Environmental Assessment

Environmental Fate

Nuosept 145® technical is stable to hydrolysis at several pH levels. Other environmental fate studies were not required because current use patterns are unlikely to result in environmental exposure.

Ecological Effects

Nuosept 145® technical is practically nontoxic to birds on a subacute dietary basis, and practically nontoxic to freshwater fish on an acute basis. It is slightly toxic to freshwater invertebrates.

Ecological Effects Risk Assessment

Based on available data and considering its use patterns, the environmental risk posed by Nuosept 145® is believed to be low. Nuosept 145® is used entirely indoors; there is no direct use or application of this pesticide outdoors. Any significant hazard would presumably result from a transportation accident, spill, or purposeful discharge into the environment. Any such environmental contamination would have minimal impact on avian and aquatic species.

Additional Data Required

EPA is requiring product-specific data including product chemistry and acute toxicity studies, a revised Confidential Statement of Formula (CSF), and revised product labeling for reregistration of the product containing Nuosept 145® technical.

Product Labeling Changes Required

The label of the registered pesticide product containing Nuosept 145® must comply with EPA's current pesticide labeling requirements.

Regulatory Conclusion

Use of the currently registered product containing Nuosept 145® in accordance with approved labeling will not pose unreasonable risks or adverse effects to humans or the environment. Therefore, all uses of this product are eligible for reregistration. The product will be reregistered once the required product-specific data, revised Confidential Statement of Formula and revised labeling are received and accepted by EPA.

For More Information

EPA is requesting public comments on the Reregistration Eligibility Decision (RED) document for Nuosept 145® during a 60-day time period, as announced in a Notice of Availability published in the Federal Register. To obtain a copy of the RED document or to submit written comments, please contact the Pesticide Docket, Public Response and Program Resources Branch, Field Operations Division (7506C), Office of Pesticide Programs (OPP), US EPA, Washington, DC 20460, telephone 703-305-5805.

Electronic copies of the RED and this fact sheet can be downloaded from the Pesticide Special Review and Reregistration Information System at 703-308-7224, and also from the Internet via *FEDWORLD.GOV* and EPA's gopher server, *EARTH1.EPA.GOV*.

Following the comment period, the Nuosept 145® RED document will be available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161, telephone 703-487-4650.

For more information about EPA's pesticide reregistration program, the Nuosept 145® RED, or reregistration of the individual product containing Nuosept 145, please contact the Special Review and Reregistration Division (7508W), OPP, US EPA, Washington, DC 20460, telephone 703-308-8000.

For information about the health effects of pesticides, or for assistance in recognizing and managing pesticide poisoning symptoms, please contact the National Pesticides Telecommunications Network (NPTN). Call toll-free 1-800-858-7378, between 8:00 am and 6:00 pm Central Time, Monday through Friday.