

## **Proposed Mitigation Measures for Methyl Isothiocyanate Generating Pesticides**

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### **Abstract**

The purpose of metam sodium, metam potassium, and Dazomet mitigation is to reduce bystander short-term exposure due to off-site movement of methyl isothiocyanate (MITC) from treated fields. MITC is a breakdown product of metam sodium, metam potassium, and Dazomet, which can pose a significant human health hazard. Department of Pesticide Regulation identified three potential areas of mitigation: buffer zone, application timing, and post-application water treatment. Buffer zones and buffer duration are determined by: the acres treated the application rate, and the number of post application water treatments. Buffer zones range from 100-2640 ft, and buffer zone durations range from 24 – 48 hrs. There are daytime and nighttime applications. Daytime applications require only general requirements. However, in addition to general requirements, special requirements are required for nighttime applications.

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### **Personal Information:**

I am working with the Worker Health and Safety Branch, Department of Pesticide Regulation, Sacramento. My work involves reviewing: registration data package, volatile organic compound (VOC) emission studies, pesticide efficacy studies, dislodgeable foliar residue studies, transfer coefficient studies, and other studies related to VOC to develop mitigation proposals, and mitigation recommendations.