

WASHINGTON, D.C. 20460



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December 12, 1991

MEMORANDUM

SUBJECT:

Amendment of EFED List C Review for Poly (hexamthylenebiguanide) (case

number 3122)

FROM:

Bernice Slutsky

Science Analysis and Coordination Staff **Environmental Fate and Effects Division**

TO:

Linda Deluise

Generic Chemical Support Branch

Special Review and Reregistration Division

THRU:

Science Analysis and Coordination Staff
Environmental Fate and Effects Discourse

Because the use pattern for this chemical includes oil recovery drilling muds the following revisions in EFED data requirements have been made:

EEB DATA REQUIREMENTS

Because oil well use can result in discharge to the aquatic environment, the following data are required:

72-1(b) acute fish tox. ((bluegill)

72-1(c) acute fish tox. (trout)

72-1(d) Acute fish tox. (trout)

72-2(a) acute aquatic invert. tox. (this study has been reviewed and the requirement is satisfied)

72-2(b) Acute aquatic Invert. Tox.

Because oil wells can be associated with coastal wetland, estuarines or marine environment the following data are required:

72-3(a) Acute estu/mari tox fish

72-3(b) acute estu/mari tox. mollusk

72-3(c) acute estu/mari tox shrimp



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72-3(d) acute estu/mari tox fish (TEP)

72-3(e) acute estu/mari tox mollusk (TEP)

72-3(f) acute estu/mari tox shrimp (TEP)

Because oil well use can use can result in discharge to the aquatic environments (both freshwater and estuarine) on a recurrent basis, the following studies are required:

72-4(a) early life-stage fish

72-4(b) life-cycle aquatic invertebrate

EFGWB DATA REQUIREMENTS

Given the potential for discharge to aquatic environments, the Fate chapter has been amended to currently require the following studies:

161-1 Hydrolysis

161-2 Photodegradation in water

161-3 photodegradation in soil

162-1 Aerobic soil metabolism

162-3 Anaerobic soil Metabolism¹

163-1 Leaching, adsorption/desorption²

165-4 Fish bioaccumulation

If the registrant's explanation leads us to believe that significant environmental exposure may result from the "closed" uses of this chemical, then the following additional field studies should be imposed immediately:

164-1 Terrestrial field dissipation

164-2 Aquatic sediments

165-3 Accumulation in irrigated crops

165-5 Accumulation in aquatic non-target organisms

CC:

Anne Barton Hank Jacoby Doug Urban Cover Memo File

The Anaerobic (soil) Metabolism data requirement normally applies, but in light of possible aquatic exposure, the Anaerobic Aquatic (sediment) Metabolism data requirement is preferred.

²The batch equilibrium protocol is preferred for the mobility studies.