

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

SEP 26 1990

OFFICE OF  
PESTICIDES AND TOXIC  
SUBSTANCES

MEMORANDUM

**SUBJECT:** TRIADINE; hexahydro-1,3,5, tris (2 hydroxyethyl)-s-triazine. EPA ID# 1258-1071; Barcode D155239

**To:** John Lee/Martha Delaney, P.M. 31      Tox Chem No 481C  
Disinfectants Branch      Proj. No. 0-1861  
Registration Division (H7507C)

**From:** Joycelyn E. Stewart, Ph.D. *ES 9/21/90*  
Section II, Toxicology Branch I  
Health Effects Division (H7509C)

**Thru:** Marion Copley, D.V.M., Head *Marion D. Copley 9/24/90*  
Section II, Toxicology Branch I  
Health Effects Division (H7509C)

Registrant: Olin Chemiclas  
Stamford, Connecticut 06904

Action Requested: Review new uses and determine whether adequate data are on file to support new use pattern. The new use request is for the in-can preservation of aqueous asphalt emulsions for products used for paving, roofing, sealing, joint filling, special paints, and adhesives.

Conclusion: Data on file are not adequate to support the current registration or the requested new use.

## Data Requirements

Technical and Formulations	Required	Satisfied
81-1 Acute Oral Toxicity	Y	N
81-2 Acute Dermal Toxicity	Y	Y
81-3 Acute Inhalation Toxicity	Y	N
81-4 Primary Eye Irritation	Y	N
81-5 Primary Dermal Irritation	Y	N
81-6 Dermal Sensitization	Y	N
81-7 Acute Delayed Neurotoxicity	N	-

### Technical

#### Tier I Studies 1/

82-3 90 day dermal	Y	Y
83-3 Teratogenicity (1 species)	Y	Y
84-2 Mutagenicity-gene mutation	Y	Y
84-2 Mutagenicity-chromosomal aberration	Y	Y
84-2 Mutagenicity-other genotoxic effects	Y	N

### Toxicology Profile

Updated 9/21/1990

#### Study Identification and Classification

#### Results

82-3 90 day dermal-rat  
Acc. No. 260195  
Minimum

NOEL = 1000 mg/kg (HDT)  
Doses tested: 0, 100,  
500, and 1000 mg/kg  
in S.D. rat

83-3 Teratology study-rat  
MRID 411618-01  
Minimum

Maternal toxicity NOEL  
= 500 mg/kg  
Developmental toxicity  
NOEL = 750 mg/kg (HDT)

84-2 Mutagenicity-gene mutation  
MRID 412317-02  
Acceptable

Negative in *S. typhimurium*  
with and without m.a.  
up to 200 ug/plate

84-2 Mutagenicity-chromosome  
aberration  
MRID 412317-01  
Acceptable

Negative in bone marrow cells  
of CD-1 mice up to 80% of  
LD50 (855 mg/kg).

84-3 Mutagenicity-UDS rat  
MRID 412623-01  
Unacceptable

Positive. Results need to  
be confirmed.

1/ This chemical is subject to tier testing. Additional teratology, Tier 2, and Tier 3 studies may be required based on the results of the Tier 1 studies and/or exposure data.

### Data Gaps

Based on the data available, the following data gaps are identified:

- 81-1 Acute Oral Toxicity
- 81-3 Acute inhalation Toxicity
- 81-4 Primary eye irritation
- 81-5 Primary Dermal Irritation
- 81-6 Dermal Sensitization
- 82-4 Mutagenicity-other mechanisms

### Action Being Taken To Obtain the Missing Information

Registration Division is to inform the registrant that these data gaps exist.

### Pending Regulatory Actions Against this chemical

Toxicology Branch is not aware of of any pending regulatory actions.

### Toxicological Issues

There are no immediate toxicological issues of concern.