BASF Corporation 8EHQ-0496-18618 **BASF**

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(A)

8EHQ-96-13618
INIT 04/08/96

April 4, 1996

Document Processing Center (TS-790)
Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

Contains No CBI

Ladies and Gentlemen:

Subject: Notice in Accordance with Section 8(e) of TSCA - 48 hr EC/LC_{50} in Daphnae for Tris-(2-ethylhexylamine), CAS No. 1860-26-0.

BASF Corporation is submitting information regarding the 48 hr EC/LC_{50} of Tris-(2-ethylhexylamine) (CAS No. 1860-26-0). A recently received MSDS from Aktiengesellschaft, Ludwigshafen, Germany, reports a 48 hr EC/LC_{50} of 0.12 mg/l in Daphnae. This information will be conveyed to customers via an updated Material Safety Data Sheet.

BASF Corporation has not received a copy of the report for this study. If one is received, it will be forwarded to the Agency.

If you have any questions please call me at (313) 246-6207.

Very Truly Yours,

ORIGINAL

BASF Corporation

Edward Kerfoot

Dr. Edward J. Kerfoot, Ph.D.
Director, Toxicology & Product Regulations

KS
8/5/96

/Attachment

88960000098

RECEIVED

1609 Biddle Avenue, Wyandotte, Michigan 48192 (313) 246-6100

(Print date: 02.12.1995)

1. Substance/preparation and company name

TRIS-(2-ETHYLHEXYLAMINE

Company:
BASF Aktiengesellschaft
Unternehmensbereich Zwischenprodukte
D-67056 Ludwigshafen
Tel.: 0621-60-0

Emergency information:
BASF works fire brigade Ludwigshafen
Tel.: 0621-60-43333 Fax: 0621-60-92664

2. Composition/information on ingredients

Chemical nature:
2-ethyl-N,N-bis(2-ethylhexyl)-hexylamine
CAS-No. 1860-26-0 EINECS-No. 217-461-0

3. Possible hazards

Critical hazards to man and the environment:
dangerous for the environment

4. First aid measures

General advice: Remove contaminated clothing.

If inhaled: keep patient calm, remove to fresh air, summon medical help

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Rinse mouth and then drink plenty of water.

5. Fire fighting measures

Suitable extinguishing media: water, dry extinguishing media, foam, carbon dioxide (CO2)

Special protective equipment:
Wear self-contained breathing apparatus and protective suit.

Further information: Collect separately contaminated extinguishing water, do not allow to reach sewerage or effluent systems.

6. Accidental release measures

Personal precautions: Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions: Do not let product enter drains.

Methods for cleaning up:
Small amounts contain with absorbent material and dispose.
Large spillages should be dammed-off and pumped into containers; soak up remainder with absorbent material and dispose of in accordance with local regulations.

7. Handling and storage

Handling
Protection against fire and explosion: Ensure thorough ventilation of stores and work areas.
Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage
Protect from acids and acid forming substances.

8. Exposure controls and personal protection

Additional information on the lay-out of technical plant
(see 7)

Components with workplace control parameters

Personal protective equipment

Hand protection: PVC or other plastic material gloves

Eye protection: tightly fitting safety goggles

General safety and hygiene measures:
When using, do not eat, drink or smoke.

9. Physical and chemical properties

Form: liquid
Colour: colourless - yellow
Odour: amine-like

Change in physical state

Melting point/melting range:	< -46 °C	
Boiling point/boiling range:	204-211 °C (30 mbar)	
Flash point:	109 °C	(DIN 51 758)
Explosion limits:		
- lower	0.4 Vol.%	
- upper	1.0 Vol.%	
Ignition temperature:	215 °C	(DIN 51 794)
Vapour pressure: (130 °C)	0.5 mbar	
Density: (20 °C)	0.8174 g/cm3	
Solubility in water:	(20 °C)	0.2 g/l
pH value:	(at 0.3 g/l, 20°C) 7.2	
Octanol/water partition coefficient (log POW):	10.7	
Viscosity:	(23 °C)	29.1 mm2/s

10. Stability and reactivity

Hazardous reactions:
Exothermic reaction with acids.

11. Toxicological information

Acute toxicity

LD50/oral/rat: > 5000 mg/kg

Primary skin irritation/rabbit/BASF test: non-irritant
Primary mucous membrane irritation/rabbits' eyes/BASF test: non-irritant

Acute inhalation hazard (rat; test results depending on toxicity and volatility): No mortality after 8 h exposure in a highly enriched and/or saturated atmosphere at ambient temperatures.

Additional information:
Under certain circumstances nitrosamines can form in contact with nitrosating agents (e.g. nitrites, nitrous oxides). Nitrosamines were found to cause cancer in animal experiments.

12. Ecological information

Elimination information
Test method: OECD 301C/ ISO 9408/ EEC 84/449/V, C.7
Method of analysis: BOD of the ThOD
Degree of elimination: < 20%
Evaluation: not readily biodegradable

Behaviour and environmental fate
The product is an alkaline. Before discharging sewage into treatment plants, neutralization is generally required.
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Ecotoxic effects

Toxicity to fish LC50/Leuciscus idus/: > 10 000 mg/l/96h
Toxicity to daphnae (acute): EC/LC50 (48 h): 0.12 mg/l
Toxicity to bacteria: EC/LC50 (0.5 h): > 10 000 mg/l

Further ecological information

AOX: not relevant

13. Disposal considerations

Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.
Disposal code no. for unused product: 55352(Germany)

Contaminated packaging:
Contaminated packs should be emptied as far as possible, they can then be passed on for recycling after being thoroughly cleaned.

14. Transport information

Land transport
ADR/RID/GGVS/GGVE Class: 9 Item number/letter: 11 c
Warning panel Hazard-no: 90 Substance no.: 3082
UN-No: 3082
Description of the goods: Umweltgefaehrlicher Stoff,fluessig,n.a.g. (Tris-(2-Ethylhexyl)amin)

Inland waterway transport
ADN/ADNR Class: 9 Item number/letter: 11 c

Description of the goods: Umweltgefaehrlicher Stoff,fluessig,n.a.g. (Tris-(2-Ethylhexyl)amin)

Sea transport
IMDG/GGVSee
not hazardous

Air transport
ICAO/IATA
not hazardous

15. Regulatory information

Labelling according to EEC Directives:
Labelling based on our own experience:

N - Dangerous for the environment

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

National legislation/regulations

Water hazard class: WGK (1) (Germany) (BASF self-classification)

16. Other information

A backslash in the left hand margin indicates an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

Triage of 8(e) Submissions

Date sent to triage: 11-22-96 NON-CAP CAP

Submission number: 13618A TSCA Inventory: Y N D

Study type (circle appropriate):

Group 1 - Gordon Cash (1 copy total)

ECO AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX SBTOX SEN w/NEUR

Group 3 -HERD (1 copy each)

STOX	CTOX	EPI	RTOX	GTOX
STOX/ONCO	CTOX/ONCO	IMMUNO	CYTO	NEUR

Other (FATE, EXPO, MET, etc.):_____

Notes:

- [x] This is the **original** 8(e) submission; refile after triage evaluation.
- [ ] This **original** submission has been **split**; rejoin after triage evaluation.
- [ ] Other:

Photocopies Needed for Triage Evaluation

entire document: 0 1 2 3

front section and CECATS: 0 1 2 3

Initials:_____ **Date:**_____

CECATS\TRIAGE TRACKING DBASE ENTRY FORM

CECATS DATA:
Submission # 8EHQ-0496-13618 SEQ. A

TYPE: (INT) SUPP FLWP

SUBMITTER NAME: BASF Corporation

INFORMATION REQUESTED: FLWP DATE:
0501 NO INFO REQUESTED
0502 INFO REQUESTED (TECH)
0503 INFO REQUESTED (VOL ACTIONS)
0504 INFO REQUESTED (REPORTING RATIONALE)

DISPOSITION:
(0639) REFER TO CHEMICAL SCREENING
0678 CAP NOTICE

VOLUNTARY ACTIONS:
0401 NO ACTION REPORTED
0402 STUDIES PLANNED/UNDERWAY
0403 NOTIFICATION OF WORKERS/USERS
(0404) LABEL/MSDS CHANGES
0405 PROCESS/HANDLING CHANGES
0406 APP/USE DISCONTINUED
0407 PRODUCTION DISCONTINUED
0408 CONFIDENTIAL

SUB. DATE: 04/04/96 OTS DATE: 04/09/96 CSRAD DATE: 08/05/96

CHEMICAL NAME:

CAS#
1860-26-0

INFORMATION TYPE:		P F C	INFORMATION TYPE:		P F C	INFORMATION TYPE:		P F C
0201	ONCO (HUMAN)	01 02 04	0216	EPI/CLIN	01 02 04	0241	IMMUNO (ANIMAL)	01 02 04
0202	ONCO (ANIMAL)	01 02 04	0217	HUMAN EXPOS (PROD CONTAM)	01 02 04	0242	IMMUNO (HUMAN)	01 02 04
0203	CELL TRANS (IN VITRO)	01 02 04	0218	HUMAN EXPOS (ACCIDENTAL)	01 02 04	0243	CHEM/PHYS PROP	01 02 04
0204	MUTA (IN VITRO)	01 02 04	0219	HUMAN EXPOS (MONITORING)	01 02 04	0244	CLASTO (IN VITRO)	01 02 04
0205	MUTA (IN VIVO)	01 02 04	(0220)	ECO/AQUA TOX	(01) 02 04	0245	CLASTO (ANIMAL)	01 02 04
0206	REPRO/TERATO (HUMAN)	01 02 04	0221	ENV. OCCC/REL/FATE	01 02 04	0246	CLASTO (HUMAN)	01 02 04
0207	REPRO/TERATO (ANIMAL)	01 02 04	0222	EMER INCI OF ENV CONTAM	01 02 04	0247	DNA DAM/REPAIR	01 02 04
0208	NEURO (HUMAN)	01 02 04	0223	RESPONSE REQEST DELAY	01 02 04	0248	PROD/USE/PROC	01 02 04
0209	NEURO (ANIMAL)	01 02 04	0224	PROD/COMP/CHEM ID	01 02 04	(0251)	MSDS	01 02 04
0210	ACUTE TOX. (HUMAN)	01 02 04	0225	REPORTING RATIONALE	01 02 04	0299	OTHER	01 02 04
0211	CHR. TOX. (HUMAN)	01 02 04	0226	CONFIDENTIAL	01 02 04			
0212	ACUTE TOX. (ANIMAL)	01 02 04	0227	ALLERG (HUMAN)	01 02 04			
0213	SUB ACUTE TOX (ANIMAL)	01 02 04	0228	ALLERG (ANIMAL)	01 02 04			
0214	SUB CHRONIC TOX (ANIMAL)	01 02 04	0239	METAB/PHARMACO (ANIMAL)	01 02 04			
0215	CHRONIC TOX (ANIMAL)	01 02 04	0240	METAB/PHARMACO (HUMAN)	01 02 04			

TRIAGE DATA:	NON-CBI INVENTORY	ONGOING REVIEW	SPECIES	TOXICOLOGICAL CONCERN:	USE:	PRODUCTION:
	(YES)	YES (DROP/REFER)	Daphnia	LOW		
CAS SR	NO	NO (CONTINUE)		MED		
	DE MINIMIS	REFER		HIGH		

COMMENTS

Tox Concern

ID
13618A

AQUATO

H

COMMENT
AQUATIC TOXICITY TO DAPHNIA IS OF HIGH CONCERN WITH A 48 HOUR LC50 OF 0.1200 MG/L. (MSDS)
THE WATER SOLUBILITY IS 0.2 G/L.