

BASF Corporation

8EHQ-0596-13653

BASF

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ORIGINAL

May 16, 1996

(A)

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



8EHQ-96-13653
INIT 05/21/96

Ladies and Gentlemen:

Subject: Notice in Accordance with Section 8(e) of TSCA - Aquatic toxicity data for Plurafac® LF 403 (aliphatic alcohol's, C12-18; CAS No. 61725-89-1 and 63658-45-7).

BASF Corporation is submitting information regarding the aquatic toxicity of Plurafac® LF 403. A recently received MSDS from Aktiengesellschaft, Ludwigshafen, Germany, reports a 72 hr EC₍₅₀₎ of 0.1-1.0 mg/l in algae.

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. When 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,

Contains No CSI

BASF Corporation

Edward J. Kerfoot

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

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6/13/96

/Attachment



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Safety data sheet
according to 91/155/EEC

BASF Safety data sheet
Date / revised: 27.02.1996
Product: PLURAFAC* LF 403

Page 1 of 4
ES 00302-A (D/E)
version 6

(Print date: 27.02.1996)

1. Substance/preparation and company name

PLURAFAC* LF 403

Company:
BASF Aktiengesellschaft

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
Aliphatic alcohols, C12-18, largely linear, ethoxylated,
propoxylated, EINECS-No. - (100 %)
(polymer; starting materials listed in: EINECS)

3. Possible hazards

Critical hazards to man and the environment:
R38 - Irritating to skin.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

General advice:
Immediately remove contaminated clothing.

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.

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

Note to physician:
Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire fighting measures

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

The following can be given off in a fire: gases/vapours.
The degree of risk is governed by the burning substance and the fire conditions.

Special protective equipment:
In case of fire, wear a self contained breathing apparatus.

Further information:
Contaminated extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal precautions:

Pick up immediately as product renders floors slippery.
hand protection

Environmental precautions:

Do not discharge product into natural waters without pretreatment
(biological treatment plant).

Methods for cleaning up:

Contain with absorbent material and dispose.

7. Handling and storage

Handling:

No special measures necessary.

Protection against fire and explosion:

No special measures necessary.

Storage:

The product is hygroscopic. Containers should be stored tightly
sealed in a cool and dry place.

Protect against temperatures of below 0 °C and of above 60 °C.

8. Exposure controls and personal protection

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

Personal protective equipment

Hand protection:
protective gloves

Eye protection:
goggles

General safety and hygiene measures:
The usual precautions for the handling of chemicals must be observed.

9. Physical and chemical properties

Form: liquid
Colour: colourless
Odour: product specific

Change in physical state
Solidification temperature approx. -25 °C

Flash point: > 100 °C (DIN 51 758)

Ignition temperature: > 200 °C (DIN 51 794)

Density: (23 °C) approx. 0.94 g/cm³

Solubility in water: >50 g/l
Solubility in other solvents: soluble in: ethanol, propan-2-ol,
petroleum spirit

pH value: (at 50 g/l, 23°C) approx. 7

Viscosity: (25 °C) approx. 45 mPa.s (Brookfield)

BASF Safety data sheet
Date / revised: 27.02.1996
Product: PLURAFAC* LF 403

ES 00302-A (D/E)
version 6

10. Stability and reactivity

Conditions to avoid:
Protect against moisture.

Hazardous reactions:
None provided product is correctly processed.

Hazardous decomposition products:
None provided product is correctly processed.

11. Toxicological information

Acute toxicity

LD50/oral/rat: >2000 mg/kg

Acute inhalation hazard (rat; test results depending on toxicity and volatility):
No mortality after 7 h exposure in a highly enriched and/or saturated atmosphere at 20°C.

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

12. Ecological information

Elimination information

Degree of elimination: >=90% BIAS (on average)
in accordance with EC Directive 73/404

Test method: OECD 301B/ ISO 9439/ EEC 84/449, C.5
Method of analysis: CO₂ formation of theoretical value
Degree of elimination: 40-60% (28 d)
Evaluation: moderately biodegradable

Behaviour and environmental fate

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Ecotoxic effects

Toxicity to daphnae (acute):
EC50 (48 h): 1mg/l

Toxicity to daphnae (chronic):
NOEC (21 d): 0.25 mg/l

Toxicity to fish:
LC50 (96 h): 1-10mg/l, *Leuciscus idus*

Toxicity to algae:
EC50 (72 h): 0.1-1mg/l

Further ecological information

COD-Value: 2270 mg O₂/g

AOX: This product contains no organically bound halogen.

Triage of 8(e) Submissions

Date sent to triage: 10/25/96

NON-CAP

CAP

Submission number: 136533A

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:

- 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 # BEHQ: 0516-13653 SEQ. A

TYPE: INT SUPP FLWP
SUBMITTER NAME: BASF Corporation

SUB. DATE: 05/16/96 OTS DATE: 05/21/96 CSRAD DATE: 06/13/96

CHEMICAL NAME: Oxirane, methyl-, polymer with Oxirane, Tridecyl ether CAS# 61725-89-1
Plurafac LF 403 none

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 IN THE WAY
0403 NOTIFICATION OF WORKER RIGHTS
0404 LABEL/MSDS CHANGES
0405 PROCESS/ANALYSIS CHANGES
0406 APP/USE DISCONTINUED
0407 PRODUCTION DISCONTINUED
0408 CONFIDENTIAL

INFORMATION TYPE:	P.F.C.	INFORMATION TYPE:	P.F.C.	INFORMATION TYPE:	P.F.C.
0201 ONCO (HUMAN)	01 02 04	0216 EPICLIN	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. OCCURENCE/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 PRODUSE/PROC	01 02 04
0209 NEURO (ANIMAL)	01 02 04	0224 PRODCOMP/CHEM ID	01 02 04	<u>0251</u> 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	CONFIDENTIAL	01 02 04		
0212 ACUTE TOX. (ANIMAL)	01 02 04	0226 ALLERG (HUMAN)	01 02 04		
0213 SUB ACUTE TOX (ANIMAL)	01 02 04	0227 ALLERG (ANIMAL)	01 02 04		
0214 SUB CHRONIC TOX (ANIMAL)	01 02 04	0228 METAB/PHARMACO (ANIMAL)	01 02 04		
0215 CHRONIC TOX (ANIMAL)	01 02 04	0229 METAB/PHARMACO (HUMAN)	01 02 04		

TRIAJE DATA: NON-CBI INVENTORY YES NO
CAS SR YES NO
IN IN RMINE YES NO
PRODUCTION: YES NO
TOXICOLOGICAL CONCERN: LOW MED HIGH

10510012

Tox Concern

ID
13653A

H

AQUATO

COMMENT

AQUATIC TOXICITY TO ALGAE IS A HIGH CONCERN WITH A 72 HOUR EC50 RANGING FROM 0.1 TO 1.0 MG/L. THE WATER SOLUBILITY IS GREATER THAN 50 G/L.

COMMENTS:(CAS# 61725-89-1, 63658-45-7)