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OPPT Document Control Office (DCO)
EPA East Room 6428
1201 Constitution Ave., N.W.
Washington DC, 20460
Attn: 8(d) Health and Safety Reporting Rule (Notification/Reporting)

Re : Submission of TSCA 8(d) Health and Safety Study reports – BASF Corporation

Dear 8(d) Coordinator:

In compliance with 40 CFR 716, BASF hereby submits requested Health and Safety Study reports for substances recently added to the list of subject chemicals (71 FR 47130).

This submission contains information for the following list of substances:

62-56-6	121-69-7	1738-25-6
83-41-0	127-68-4	3039-83-6
84-69-5	131-57-7	4316-73-8
96-22-0	137-20-2	61788-76-9
104-93-8	645-62-5	68188-18-1
110-18-9	939-97-9	68609-05-2
111-44-4	1111-78-0	68909-77-3

Should you have questions regarding this submission, please do not hesitate to contact me at 734-324-6593 or email kara.sparks@basf.com .

Sincerely,

BASF Corporation

Kara Sparks
Manager, North America
Product Regulatory Centre of Expertise

CONTAINS NO CBI

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302148

I U C L I D

D a t a S e t

Existing Chemical	ID: 137-20-2
CAS No.	137-20-2
EINECS Name	sodium 2-[methyloleoylamino]ethane-1-sulphonate
EC No.	205-285-7
Molecular Weight	426.62 g/mol
Molecular Formula	C21 H41 N O4 S .Na

Producer Related Part

Company:	BASF AG
Creation date:	31-OCT-2006

Substance Related Part

Company:	BASF AG
Creation date:	31-OCT-2006

Memo:	master

Printing date:	17-JAN-2007
Revision date:	
Date of last Update:	**31-OCT-2006**

Number of Pages:	**17**

Chapter (profile):	Chapter: 1, 2, 3, 4, 5, 6, 7, 8, 10
Reliability (profile):	Reliability: without reliability, 1, 2, 3, 4
Flags (profile):	Flags: TSCA 8d

1.0.1 Applicant and Company Information

-

1.0.2 Location of Production Site, Importer or Formulator

-

1.0.3 Identity of Recipients

-

1.0.4 Details on Category/Template

-

1.1.0 Substance Identification

-

1.1.1 General Substance Information

-

1.1.2 Spectra

-

1.2 Synonyms and Tradenames

-

1.3 Impurities

-

1.4 Additives

-

1.5 Total Quantity

-

1.6.1 Labelling

-

1.6.2 Classification

-

1.6.3 Packaging

-

1.7 Use Pattern

-

1.7.1 Detailed Use Pattern

-

1.7.2 Methods of Manufacture

-

1.8 Regulatory Measures

-

1.8.1 Occupational Exposure Limit Values

-

1.8.2 Acceptable Residues Levels

-

1.8.3 Water Pollution

-

1.8.4 Major Accident Hazards

-

1.8.5 Air Pollution

-

1.8.6 Listings e.g. Chemical Inventories

-

1.9.1 Degradation/Transformation Products

-

1.9.2 Components

-

1.10 Source of Exposure

-

1.11 Additional Remarks

-

1.12 Last Literature Search

-

1.13 Reviews

-

2.1 Melting Point

-

2.2 Boiling Point

-

2.3 Density

-

2.3.1 Granulometry

-

2.4 Vapour Pressure

-

2.5 Partition Coefficient

-

2.6.1 Solubility in different media

-

2.6.2 Surface Tension

-

2.7 Flash Point

-

2.8 Auto Flammability

-

2.9 Flammability

-

2.10 Explosive Properties

-

2.11 Oxidizing Properties

-

2.12 Dissociation Constant

-

2.13 Viscosity

-

2.14 Additional Remarks

-

3.1.1 Photodegradation

-

3.1.2 Stability in Water

-

3.1.3 Stability in Soil

-

3.2.1 Monitoring Data (Environment)

-

3.2.2 Field Studies

-

3.3.1 Transport between Environmental Compartments

-

3.3.2 Distribution

-

3.4 Mode of Degradation in Actual Use

-

3.5 Biodegradation

-

3.6 BOD5, COD or BOD5/COD Ratio

-

3.7 Bioaccumulation

-

3.8 Additional Remarks

-

AQUATIC ORGANISMS

4.1 Acute/Prolonged Toxicity to Fish

-

4.2 Acute Toxicity to Aquatic Invertebrates

-

4.3 Toxicity to Aquatic Plants e.g. Algae

-

4.4 Toxicity to Microorganisms e.g. Bacteria

-

4.5 Chronic Toxicity to Aquatic Organisms

4.5.1 Chronic Toxicity to Fish

-

4.5.2 Chronic Toxicity to Aquatic Invertebrates

-

TERRESTRIAL ORGANISMS

4.6.1 Toxicity to Sediment Dwelling Organisms

-

4.6.2 Toxicity to Terrestrial Plants

-

4.6.3 Toxicity to Soil Dwelling Organisms

-

4.6.4 Toxicity to other Non-Mamm. Terrestrial Species

-

4.7 Biological Effects Monitoring

-

4.8 Biotransformation and Kinetics

-

4.9 Additional Remarks

-

5.0 Toxicokinetics, Metabolism and Distribution

-

5.1 Acute Toxicity

5.1.1 Acute Oral Toxicity

-

5.1.2 Acute Inhalation Toxicity

-

5.1.3 Acute Dermal Toxicity

-

5.1.4 Acute Toxicity, other Routes

-

5.2 Corrosiveness and Irritation

5.2.1 Skin Irritation

-

5.2.2 Eye Irritation

-

5.3 Sensitization

-

5.4 Repeated Dose Toxicity

-

5.5 Genetic Toxicity 'in Vitro'

Type: Ames test
System of testing: strain TA 98
Concentration: 500-10000 µg/plate
Cytotoxic Concentration: 2500 µg/plate
Metabolic activation: with and without
Result: negative

Method: other: BASF-test
Year: 1994
GLP: no
Test substance: other TS

Method: Standard plate test both with and without metabolic activation (S-9 mix). The substance was regarded as positive in the Ames test if there was a doubling of the spontaneous mutation rate (control), a dose-response relationship and reproducibility of the results.
Positive controls were included by using 2-aminoanthracene in incubations without S9, and 4-nitro-o-phenyldiamine in incubations with S9.
Remark: key study
Result: An increase in the number of his+ revertants was not observed in the standard plate test either without S-9 mix or after the addition of a metabolizing system. The test substance did not percipitate in the solvent at any concentration used.
Test condition: Tester strain: TA 98. The strain indicated was exposed (in triplicate) to 500, 2500, 5000, 7500 and 10000 µg/plate Arkopon T Teig in DMSO (solvent).
Test substance: Arkopon T Teig
Conclusion: According to the results of the present study, the test substance Arkopon T Teig is not mutagenic in the Ames test under the experimental conditions chosen.
Reliability: (2) valid with restrictions
Scientifically acceptable
Flag: TSCA 8d, key study
31-OCT-2006 (1)

5.6 Genetic Toxicity 'in Vivo'

-

5.7 Carcinogenicity

-

5.8.1 Toxicity to Fertility

-

5.8.2 Developmental Toxicity/Teratogenicity

-

5.8.3 Toxicity to Reproduction, Other Studies

-

5.9 Specific Investigations

-

5.10 Exposure Experience

-

5.11 Additional Remarks

-

6.1 Analytical Methods

-

6.2 Detection and Identification

-

7.1 Function

-

7.2 Effects on Organisms to be Controlled

-

7.3 Organisms to be Protected

-

7.4 User

-

7.5 Resistance

-

8.1 Methods Handling and Storing

-

8.2 Fire Guidance

-

8.3 Emergency Measures

-

8.4 Possib. of Rendering Subst. Harmless

-

8.5 Waste Management

-

8.6 Side-effects Detection

-

8.7 Substance Registered as Dangerous for Ground Water

-

8.8 Reactivity Towards Container Material

-

(1) BASF AG (1994). Notice of the bioassay with Arkopon T Teig in the Ames test. Department of toxicology, unpublished data, report No. 3118, 03 Jan 1994

10.1 End Point Summary

-

10.2 Hazard Summary

-

10.3 Risk Assessment

-

CAS Number	Product Name	Study Title	Report Date	Laboratory	Comment	Study Report attached?	Report No.
137-20-2	sodium 2-[methyloleoylamino]ethane-1-sulphonate	Mitteilung über die Prüfung von Arkopon T Teig extra im Ames test	03-Jan-94	BASF	BASF	yes	12.1

12.1

Vertraulich

BASF
Abteilung Toxikologie
Department of Toxicology

Über ET/PU - Z 25
an ETF - A 317

03. Jan. 1994

ZHT - Z 470/bh; 31
Herr Dr. Engelhardt
Tel. 56762

MITTEILUNG

über die Prüfung von

Indigo HW Versuchsproduktion zur Reinigung im BME, Temperaturbehandlung einer wässrigen Suspension der VP. 1-4 bei 100 °C in Gegenwart der 4 Hilfsmittel; Charge Kt 10 153 A
(ZHT-Nr.: 93/255)

Tamol NN 9140 (Hilfsmittel zur Herstellung von Indigo rein BASF); Charge Kt B 1073/9
(ZHT-Nr.: 93/256)

Leukonöl LBA-2 (Hilfsmittel zur Herstellung von Indigo rein BASF); Charge Kt B 1073/10
(ZHT-Nr.: 93/257)

Arkopon T Teig extra (Hilfsmittel zur Herstellung von Indigo rein BASF); Charge Kt B 1073/11
(ZHT-Nr.: 93/258)

und

Reax 85 A (Hilfsmittel zur Herstellung von Indigo rein BASF); Charge Kt B 1073/12
(ZHT-Nr.: 93/259)

im

AMES-TEST

(Standard plate test
mit Salmonella typhimurium TA 98)

Diese Mitteilung besteht aus 3 Seiten und 5 Tabellen.

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ZUSAMMENFASSUNG

Die Substanzen

Indigo HW Versuchsproduktion zur Reinigung im BME, Temperaturbehandlung einer wässrigen Suspension der VP. 1-4 bei 100 °C in Gegenwart der 4 Hilfsmittel; Charge Kt 10 153 A (ZHT-Nr.: 93/255)

Tamol NN 9140 (Hilfsmittel zur Herstellung von Indigo rein BASF); Charge Kt B 1073/9 (ZHT-Nr.: 93/256)

Leukonöl LBA-2 (Hilfsmittel zur Herstellung von Indigo rein BASF); Charge Kt B 1073/10 (ZHT-Nr.: 93/257)

Arkopon T Teig extra (Hilfsmittel zur Herstellung von Indigo rein BASF); Charge Kt B 1073/11 (ZHT-Nr.: 93/258)

Reax 85 A (Hilfsmittel zur Herstellung von Indigo rein BASF); Charge Kt B 1073/12 (ZHT-Nr.: 93/259)

wurden auf mutagene Wirkung in einem reduzierten Ames-Test Screening-Programm untersucht.

Stamm:	TA 98
Dosisbereich:	20 µg - 5000 µg/Platte (93/255, 93/256, 93/259) 500 µg - 10000 µg/Platte (93/257, 93/258)
Testbedingung:	Standard plate test ohne und mit metabolischer Aktivierung (Ratten S-9 Mix).
Löslichkeit:	Eine Substanzpräzipitation war mit 93/255 ab 500 µg/Platte zu beobachten.
Toxizität:	Eine bakteriotoxische Wirkung war mit 93/258 ab 2500 µg/Platte nachweisbar.

Mutagenität (Tabellen 1 - 5):

Indigo HW Versuchsproduktion zur Reinigung im BME, Temperaturbehandlung einer wässrigen Suspension der VP. 1-4 bei 100 °C in Gegenwart der 4 Hilfsmittel; Charge Kt 10 153 A (ZHT-Nr.: 93/255)
(Tabelle 1)

Mit und ohne S-9 Mix schwach positive Wirkung ab 2500 µg - 5000 µg/Platte (Faktor 2,1 - 2,6).

Tamol NN 9140 (Hilfsmittel zur Herstellung von Indigo rein BASF);
Charge Kt B 1073/9 (ZHT-Nr.: 93/256)
(Tabelle 2)

Keine Zunahme der Zahl der his⁺ Revertanten.

Leukonöl LBA-2 (Hilfsmittel zur Herstellung von Indigo rein BASF);
Charge Kt B 1073/10 (ZHT-Nr.: 93/257)
(Tabelle 3)

Keine Zunahme der Zahl der his⁺ Revertanten.

Arkopon T Teig extra (Hilfsmittel zur Herstellung von Indigo rein BASF);
Charge Kt B 1073/11 (ZHT-Nr.: 93/258)
(Tabelle 4)

Keine Zunahme der Zahl der his⁺ Revertanten.

Reax 85 A (Hilfsmittel zur Herstellung von Indigo rein BASF);
Charge Kt B 1073/12 (ZHT-Nr.: 93/259)
(Tabelle 5)

Keine Zunahme der Zahl der his⁺ Revertanten.

Bewertung:

Nach den vorliegenden Untersuchungsergebnissen wirkt die **Indigo-Charge Kt 10 153 A** (ZHT-Nr.: 93/255) aufgrund mutagen wirkender Nebenkomponenten schwach positiv im Ames-Test für den Stamm TA 98.

Die **4 Hilfsmittel zur Herstellung von Indigo rein BASF** führen unter den gewählten Versuchsbedingungen zu keiner Zunahme der Mutanten-Kolonien.

29.12.93 — Dr.rer.nat. H. D. Hoffmann

29.12.93 — Dr.rer.nat. G. Engelhardt
(Versuchsdurchführung)

B.A.S.F. A.G. TABLE : 1 STUDY NUMBER: 934157
DEPARTMENT OF TOXICOLOGY STUDY DIREC.: ENG
OPERATOR : CS
AMES TEST WITH : 93/255 DATE : 25.11.93
METHOD : STANDARD PLATE TEST STRAIN: TA 98

DOSE MCG/PL	REVERTANTS / PLATE -S9	M	SD	+S9*	M	SD	TITER DIL. EXP-6	QUOTIENT -S9	+S9*
NEGATIVE	34	34	4	39	33	6	28	1.0	1.0
CONTROL	30			29			26		
DMSO	37			30			15		
20	32	33	7	30	36	5		1.0	1.1
	27			40					
	40			37					
100	42	37	4	35	34	4		1.1	1.0
	34			30					
	35			37					
500~	41	38	3	46	41	4		1.1	1.3
	39			39					
	35			39					
2500~	63	75	10	90	73	18	30	2.2	2.2
	82			54			29		
	80			74			27		
5000~	84	89	6	72	69	6	30	2.6	2.1
	96			62			29		
	86			72			24		
POSITIVE				745	710	74			21.7
CONTROL				760					
2-AA 2.5				625					
POSITIVE	1118	1266	134					37.6	
CONTROL	1300								
NPD 10	1380								

* : S-9 FRACTION/COFACTORS = 1:9 EXP :EXP. TO 10
~:PRECIPITATION

B.A.S.F. A.G. TABLE : 2 STUDY NUMBER: 934158
DEPARTMENT OF TOXICOLOGY STUDY DIREC.: ENG
OPERATOR : CS
AMES TEST WITH : 93/256 DATE : 25.11.93
METHOD : STANDARD PLATE TEST STRAIN: TA 98

DOSE MCG/PL	REVERTANTS / PLATE -S9	M	SD	+S9*	M	SD	TITER DIL. EXP-6	QUOTIENT -S9	+S9*
NEGATIVE	34	34	4	39	33	6	28	1.0	1.0
CONTROL	30			29			26		
DMSO	37			30			15		
20	34	34	1	44	44	11		1.0	1.3
	35			54					
	33			33					
100	36	29	7	43	41	2		0.9	1.3
	28			42					
	22			39					
500	33	34	10	41	36	8		1.0	1.1
	24			27					
	44			39					
2500	39	28	10	30	28	2	23	0.8	0.8
	21			26			23		
	23			27			20		
5000	23	21	3	19	20	4	27	0.6	0.6
	18			25			25		
	22			17			26		
POSITIVE				745	710	74			21.7
CONTROL				760					
2-AA				625					
2.5									
POSITIVE	1118	1266	134					37.6	
CONTROL	1300								
NPD	1380								
10									

* : S-9 FRACTION/COFACTORS = 1:9 EXP :EXP. TO 10

B.A.S.F. A.G. TABLE : 3 STUDY NUMBER: 934159
DEPARTMENT OF TOXICOLOGY STUDY DIREC.: ENG
OPERATOR : CS
AMES TEST WITH : 93/257 DATE : 25.11.93
METHOD : STANDARD PLATE TEST STRAIN: TA 98

DOSE MCG/PL	REVERTANTS / PLATE -S9	M	SD	+S9*	M	SD	TITER DIL. EXP-6	QUOTIENT -S9	+S9*
NEGATIVE	34	34	4	39	33	6	28	1.0	1.0
CONTROL	30			29			26		
DMSO	37			30			15		
500	32	36	4	20	30	17		1.1	0.9
	35			20					
	40			49					
2500	30	28	6	36	38	2		0.8	1.2
	21			38					
	32			39					
5000	26	25	1	37	34	4		0.8	1.0
	24			29					
	26			36					
7500	15	21	5	29	26	3	13	0.6	0.8
	23			23			10		
	24			25			12		
10000	25	17	7	18	22	4	15	0.5	0.7
	16			26			19		
	11			23			17		
POSITIVE				745	710	74			21.7
CONTROL				760					
2-AA				625					
2.5									
POSITIVE	1118	1266	134					37.6	
CONTROL	1300								
NPD	1380								
10									

* : S-9 FRACTION/COFACTORS = 1:9 EXP :EXP. TO 10

B.A.S.F. A.G. TABLE : 4 STUDY NUMBER: 934160
DEPARTMENT OF TOXICOLOGY STUDY DIREC.: ENG
OPERATOR : CS
AMES TEST WITH : 93/258 DATE : 25.11.93
METHOD : STANDARD PLATE TEST STRAIN: TA 98

DOSE MCG/PL	REVERTANTS / PLATE -S9	M	SD	+S9*	M	SD	TITER DIL. EXP-6	QUOTIENT -S9	+S9*
NEGATIVE	34	34	4	39	33	6	28	1.0	1.0
CONTROL	30			29			26		
DMSO	37			30			15		
500	24	23	2	31	33	2		0.7	1.0
	21			32					
	24			35					
2500	2B	3	2	20	21	1		0.1	0.7
	5B			22					
	2B			22					
5000	B	-	-	3	2	1		-	0.1
	B			1					
	B			3					
7500	B	-	-	0	0	0	0	-	0.0
	B			0			0		
	B			0			0		
10000	B	-	-	0	0	0	0	-	0.0
	B			0			0		
	B			0			0		
POSITIVE				745	710	74			21.7
CONTROL				760					
2-AA				625					
2.5									
POSITIVE	1118	1266	134					37.6	
CONTROL	1300								
NPD	1380								
10									

* : S-9 FRACTION/COFACTORS = 1:9 EXP :EXP. TO 10
B:REDUCED his- BACKGROUND

B.A.S.F. A.G. TABLE : 5 STUDY NUMBER: 934161
DEPARTMENT OF TOXICOLOGY STUDY DIREC.: ENG
OPERATOR : CS
AMES TEST WITH : 93/259 DATE : 25.11.93
METHOD : STANDARD PLATE TEST STRAIN: TA 98

DOSE MCG/PL	REVERTANTS / PLATE -S9	M	SD	+S9*	M	SD	TITER DIL. EXP-6	QUOTIENT -S9	+S9*
NEGATIVE	34	34	4	39	33	6	28	1.0	1.0
CONTROL	30			29			26		
DMSO	37			30			15		
20	32	28	5	29	29	6		0.8	0.9
	28			23					
	23			35					
100	25	25	4	44	45	1		0.8	1.4
	29			45					
	22			45					
500	25	23	2	48	49	8		0.7	1.5
	21			41					
	22			57					
2500	19	17	4	44	37	9	20	0.5	1.1
	20			27			28		
	12			39			23		
5000	12	13	2	39	36	6	19	0.4	1.1
	15			40			28		
	13			30			20		
POSITIVE				745	710	74			21.7
CONTROL				760					
2-AA				625					
2.5									
POSITIVE	1118	1266	134					37.6	
CONTROL	1300								
NPD	1380								
10									

* : S-9 FRACTION/COFACTORS = 1:9 EXP :EXP. TO 10