

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: L3749

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - L3749

MATERIAL SAFETY DATA SHEET

LAMOTTE COMPANY
PO BOX 329
CHESTERTOWN, MARYLAND, 21620

TELEPHONE # FOR INFORMATION: 410-778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): 800-255-3924

1. PRODUCT IDENTIFICATION

NITROGEN EXTRACTING SOLUTION

CODE NR.: 5702

2. HAZARDOUS INGREDIENTS

Table with columns: NAME, CAS #, TSCA #, %, PEL, TLV. Row: HYDROCHLORIC ACID, 7647-01-0, 0.8, C 7 MG/CUBIC M, C 5 PPM

3. NON-HAZARDOUS INGREDIENTS

EXCEPT WATER (7732-18-5)

Table with columns: NAME, CAS #, %. Row: MAGNIFLOC 905N (POLYACRYLAMIDE FLOCCULANT), 9003-05-8, <0.1

4. PHYSICAL DATA

APPEARANCE: CLEAR COLORLESS LIQUID

SOLUBILITY IN WATER: SOLUBLE

ODOR: NONE

BOILING POINT: CA. 100 DEG C

MELT. POINT: N/A

VAPOR PRESSURE: CA. 17 @ 20 C

VAPOR DENSITY: <1 (AIR=1)

pH: <1

5. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMIT:

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA: NOT A FIRE HAZARD

HMS HAZARD:

HEALTH 1

FLAMMABILITY 0

REACTIVITY 0

SCALE:

4 = EXTREME

3 = HIGH

2 = MODERATE

1 = SLIGHT

0 = LEAST

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE & EXPLOSION HAZARD: N/A

6. REACTIVITY DATA

STABILITY:

(X) STABLE

() UNSTABLE

CONDITIONS TO AVOID: HEAT

INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

7. HEALTH HAZARD DATA

TOXICITY: UNKNOWN

PRIMARY ROUTE OF ENTRY:

() INHALATION

(X) INGESTION

(X) SKIN

() N/A

CARCINOGENICITY:

(X) NONE

() OSHA

() NTP

() IARC

OTHER HEALTH RELATED COMMENTS:

TARGET ORGANS: N/A

SIGNS AND SYMPTOMS OF EXPOSURE: MAY IRRITATE EYES AND SKIN.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: N/A

8. EMERGENCY FIRST AID PROCEDURES

EYE CONTACT:

FLUSH WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: RINSE MOUTH, DRINK GLASS OF WATER. CONSULT PHYSICIAN.

INHALATION: N/A

SKIN CONTACT:

FLUSH WITH WATER. REMOVE AFFECTED CLOTHING AND WASH SKIN WITH SOAP AND WATER.

9. SPILL AND DISPOSAL PROCEDURES

SPILL AND LEAK:

COVER SPILL WITH SODIUM BICARBONATE. SCOOP UP NEUTRALIZED SLURRY AND WASH DOWN DRAIN WITH EXCESS WATER.

DISPOSAL:

ADD SLOWLY TO A SOLUTION OF SODA ASH AND CALCIUM HYDROXIDE. POUR NEUTRALIZED SOLUTION DOWN DRAIN WITH EXCESS WATER. DISPOSE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

10. PRECAUTIONARY MEASURES

IN HANDLING:

(X) GLOVES

(X) EYE PROTECTION

() N/A

(X) OTHER: LAB COAT

VENTILATION:

(X) NORMAL

() MECHANICAL

() RESPIRATORY PROTECTION

WORK/HYGIENIC PRACTICES: AVOID CONTACT WITH SKIN AND CLOTHING.

11. SPECIAL PRECAUTIONS

N/A

DATE: 12/20/03

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT CLAIM TO BE ALL INCLUSIVE AND SHOULD BE USED ONLY AS A GUIDE.

THIS IS A TOXIC CHEMICAL SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF EPCRA AND 40 CFR 372.

MATERIAL SAFETY DATA SHEET

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CHESTERTOWN, MARYLAND, 21620

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24 HOUR EMERGENCY NUMBER (CHEM-TEL): 800-255-3924

1. PRODUCT IDENTIFICATION

NITROGEN INDICATOR POWDER

CODE NR.: 5703

2. HAZARDOUS INGREDIENTS

Table with columns: NAME, CAS #, TSCA #, %, PEL, TLV. Rows include MANGANOUS SULFATE MONOHYDRATE, ZINC DUST, BARIUM SULFATE, SULFANILAMIDE, N-1-NAPHTHYL-ETHYLENEDIAMINE DIHYDROCHLORIDE.

3. NON-HAZARDOUS INGREDIENTS

EXCEPT WATER (7732-18-5)

Table with columns: NAME, CAS #, %

4. PHYSICAL DATA

APPEARANCE: OFF WHITE POWDER
SOLUBILITY IN WATER: PARTIAL
ODOR: NONE
BOILING POINT: N/A
MELT. POINT: UNKNOWN
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
pH: 6 (0.1G/10 ML WATER)

5. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): N/A
FLAMMABLE LIMIT:
LEL: N/A
UEL: N/A
EXTINGUISHING MEDIA: NOT A FIRE HAZARD
HMIS HAZARD:
HEALTH 1
FLAMMABILITY 0
REACTIVITY 0
SCALE:
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = LEAST
SPECIAL FIRE FIGHTING PROCEDURES: N/A
UNUSUAL FIRE & EXPLOSION HAZARD: N/A

6. REACTIVITY DATA

STABILITY:
(X) STABLE
() UNSTABLE
CONDITIONS TO AVOID: HEAT, MOISTURE
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS: N/A

7. HEALTH HAZARD DATA

TOXICITY: UNKNOWN
PRIMARY ROUTE OF ENTRY:
(X) INHALATION
(X) INGESTION
(X) SKIN
() N/A
CARCINOGENICITY:
(X) NONE
() OSHA
() NTP
() IARC
OTHER HEALTH RELATED COMMENTS:
BOTH MANGANESE SULFATE AND SULFANILAMIDE ARE POSSIBLE MUTAGENS; MUTAGENS CAN CAUSE HERITABLE GENETIC DAMAGE.
TARGET ORGANS: N/A
SIGNS AND SYMPTOMS OF EXPOSURE:
HARMFUL BY DUST INHALATION AND IF SWALLOWED. MAY CAUSE SKIN IRRITATION.
MEDICAL CONDITION AGGRAVATED BY EXPOSURE: N/A

8. EMERGENCY FIRST AID PROCEDURES

EYE CONTACT:
FLUSH THOROUGHLY WITH WATER. CONSULT PHYSICIAN IF IRRITATION PERSISTS.
INGESTION: DRINK WATER. CONSULT A PHYSICIAN.
INHALATION: REMOVE TO FRESH AIR.
SKIN CONTACT: FLUSH WITH WATER. WASH WITH SOAP AND WATER.

9. SPILL AND DISPOSAL PROCEDURES

SPILL AND LEAK:
SMALL QUANTITY:
SWEEP UP, DISSOLVE IN WATER AND FLUSH DOWN DRAIN WITH EXCESS WATER.
LARGE QUANTITY:
SWEEP UP. PLACE IN CLEAN, DRY, CLOSED CONTAINER. SEND TO APPROVED LANDFILL OR TO HAZARDOUS WASTE DISPOSAL.
DISPOSAL: DISPOSE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

10. PRECAUTIONARY MEASURES

IN HANDLING:

- (X) GLOVES
(X) EYE PROTECTION
() N/A
(X) OTHER: LAB COAT

VENTILATION:
() NORMAL
(X) MECHANICAL
() RESPIRATORY PROTECTION

WORK/HYGIENIC PRACTICES:
AVOID CONTACT WITH SKIN AND CLOTHING AND INHALATION OF DUST. WASH AFTER HANDLING.

11. SPECIAL PRECAUTIONS

STORE TIGHTLY CLOSED, AWAY FROM HEAT & MOISTURE.
DATE: 12/20/03

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LAMOTTE COMPANY
PO BOX 329
CHESTERTOWN, MARYLAND, 21620

TELEPHONE # FOR INFORMATION: 410-778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): 800-255-3924

1. PRODUCT IDENTIFICATION

PHOSPHORUS EXTRACTING SOLUTION
CODE NR.: 5704

2. HAZARDOUS INGREDIENTS

Table with 6 columns: NAME, CAS #, TSCA #, %, PEL, TLV. Row 1: ACETIC ACID, 64-19-7, 3, 10 PPM, 25 MG/CUBIC M

3. NON-HAZARDOUS INGREDIENTS

Table with 3 columns: NAME, CAS #, %. Row 1: SODIUM ACETATE, 6131-90-4, 10. Row 2: WATER TO 100%

4. PHYSICAL DATA

APPEARANCE: CLEAR COLORLESS LIQUID
SOLUBILITY IN WATER: SOLUBLE
ODOR: VINEGAR
BOILING POINT: UNKNOWN
MELT. POINT: N/A
VAPOR PRESSURE: UNKNOWN
VAPOR DENSITY: UNKNOWN
pH: 5

5. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): N/A
FLAMMABLE LIMIT:
LEL: N/A
UEL: N/A
EXTINGUISHING MEDIA: NOT A FIRE HAZARD

HMIS HAZARD:
HEALTH 1
FLAMMABILITY 0
REACTIVITY 0

SCALE:
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = LEAST

SPECIAL FIRE FIGHTING PROCEDURES: N/A
UNUSUAL FIRE & EXPLOSION HAZARD: N/A

6. REACTIVITY DATA

STABILITY:
(X) STABLE
() UNSTABLE
CONDITIONS TO AVOID: N/A
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS: N/A

7. HEALTH HAZARD DATA

TOXICITY: NON-TOXIC

PRIMARY ROUTE OF ENTRY:

- () INHALATION
() INGESTION
(X) SKIN
() N/A

CARCINOGENICITY:

- (X) NONE
() OSHA
() NTP
() IARC

OTHER HEALTH RELATED COMMENTS:

TARGET ORGANS: N/A

SIGNS AND SYMPTOMS OF EXPOSURE: MAY IRRITATE EYES AND SKIN.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: N/A

8. EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES.

INGESTION: DRINK SEVERAL GLASSES OF WATER.

INHALATION: REMOVE TO FRESH AIR.

SKIN CONTACT: FLUSH SKIN WITH WATER. WASH WITH SOAP AND WATER.

9. SPILL AND DISPOSAL PROCEDURES

SPILL AND LEAK: MOP UP AND FLUSH DOWN DRAIN WITH EXCESS WATER.

DISPOSAL: POUR DOWN DRAIN WITH EXCESS WATER. DISPOSE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

10. PRECAUTIONARY MEASURES

IN HANDLING:

- (X) GLOVES
(X) EYE PROTECTION
() N/A
() OTHER

VENTILATION:

- (X) NORMAL
() MECHANICAL
() RESPIRATORY PROTECTION

WORK/HYGIENIC PRACTICES: N/A

11. SPECIAL PRECAUTIONS

N/A

DATE: 12/13/03

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TELEPHONE # FOR INFORMATION: 410-778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): 800-255-3924

1. PRODUCT IDENTIFICATION

PHOSPHORUS INDICATOR SOLUTION

CODE NR.: 5705

2. HAZARDOUS INGREDIENTS

Table with 6 columns: NAME, CAS #, TSCA #, %, PEL, TLV. Rows include ACETIC ACID and SODIUM MOLYBDATE DIHYDRATE.

3. NON-HAZARDOUS INGREDIENTS

EXCEPT WATER (7732-18-5)

Table with 3 columns: NAME, CAS #, %. Row: WATER TO 100%

4. PHYSICAL DATA

APPEARANCE: CLEAR COLORLESS LIQUID

SOLUBILITY IN WATER: SOLUBLE

ODOR: VINEGAR

BOILING POINT: UNKNOWN

MELT. POINT: N/A

VAPOR PRESSURE: UNKNOWN

VAPOR DENSITY: UNKNOWN

pH: 4

5. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMIT:

- LEL: N/A
UEL: N/A

EXTINGUISHING MEDIA: NOT A FIRE HAZARD

HMS HAZARD:

- HEALTH 1
FLAMMABILITY 0
REACTIVITY 0

SCALE:

- 4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = LEAST

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE & EXPLOSION HAZARD: N/A

6. REACTIVITY DATA

STABILITY:

- (X) STABLE
() UNSTABLE

CONDITIONS TO AVOID: HEAT

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ALKALI, SULFURIC ACID, METALS

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

7. HEALTH HAZARD DATA

TOXICITY:

ORL RAT LD50: 4250 MG/KG FOR SODIUM MOLYBDATE DIHYDRATE SOLID

PRIMARY ROUTE OF ENTRY:

- (X) INHALATION
() INGESTION
(X) SKIN
() N/A

CARCINOGENICITY:

- (X) NONE
() OSHA
() NTP
() IARC

OTHER HEALTH RELATED COMMENTS:

TARGET ORGANS: N/A

SIGNS AND SYMPTOMS OF EXPOSURE:

VAPORS AND LIQUID CAUSE IRRITATION TO EYES, SKIN, AND RESPIRATORY SYSTEM. HARMFUL IF SWALLOWED.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: N/A

8. EMERGENCY FIRST AID PROCEDURES

EYE CONTACT:

FLUSH WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: RINSE OUT MOUTH. DRINK PLENTY OF WATER. CONSULT A PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR.

SKIN CONTACT: FLUSH SKIN THOROUGHLY. WASH WITH SOAP AND WATER.

9. SPILL AND DISPOSAL PROCEDURES

SPILL AND LEAK:

VENTILATE AREA. AVOID BREATHING VAPOR. NEUTRALIZE WITH SODIUM BICARBONATE. MOP UP CAREFULLY AND POUR DOWN DRAIN WITH EXCESS WATER.

DISPOSAL:

FLUSH DOWN DRAIN WITH EXCESS WATER. DISPOSE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

10. PRECAUTIONARY MEASURES

IN HANDLING:

- (X) GLOVES
(X) EYE PROTECTION
() N/A
(X) OTHER: LAB COAT

VENTILATION:

- (X) NORMAL
() MECHANICAL
() RESPIRATORY PROTECTION

WORK/HYGIENIC PRACTICES:

AVOID CONTACT WITH SKIN. USE WITH ADEQUATE VENTILATION.

11. SPECIAL PRECAUTIONS

N/A

DATE: 12/13/03

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1. PRODUCT IDENTIFICATION

PHOSPHORUS TEST TABLET

CODE NR.: 5706

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
STANNOUS CHLORIDE DIHYDRATE	10025-69-1		5	2 MG/CUBIC M AS Sn	2 MG/CUBIC M AS Sn
POTASSIUM CHLORIDE	7447-40-7		95	15 MG/CUBIC M TOTAL DUST	10 MG/CUBIC M TOTAL DUST

3. NON-HAZARDOUS INGREDIENTS

EXCEPT WATER (7732-18-5)

NAME	CAS #	%
N/A		

4. PHYSICAL DATA

APPEARANCE: WHITE TABLET

SOLUBILITY IN WATER: SOLUBLE

ODOR: NONE

BOILING POINT: N/A

MELT. POINT: CA. 750 DEG C

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

pH: 3 (1 TABLET/10 ML WATER)

5. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMIT:
LEL: N/A
UEL: N/A

EXTINGUISHING MEDIA: NOT A FIRE HAZARD

HMS HAZARD:
HEALTH 1
FLAMMABILITY 0
REACTIVITY 0

SCALE:
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = LEAST

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE & EXPLOSION HAZARD: N/A

6. REACTIVITY DATA

STABILITY:
(X) STABLE
() UNSTABLE

CONDITIONS TO AVOID: HEAT, MOISTURE

INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

7. HEALTH HAZARD DATA

TOXICITY:

ORL RAT LD50:
700 MG/KG FOR STANNOUS CHLORIDE
2600 MG/KG FOR POTASS. CHLORIDE

PRIMARY ROUTE OF ENTRY:
() INHALATION
(X) INGESTION
() SKIN

() N/A

CARCINOGENICITY:

(X) NONE
() OSHA
() NTP
() IARC

OTHER HEALTH RELATED COMMENTS: POTASSIUM CHLORIDE INVESTIGATED AS A MUTAGEN

TARGET ORGANS: N/A

SIGNS AND SYMPTOMS OF EXPOSURE:
MAY IRRITATE EYES AND SKIN. INGESTION OF LARGE QUANTITIES MAY CAUSE GASTROINTESTINAL IRRITATION AND CIRCULATORY PROBLEMS.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE:
PERSONS W/IMPAIRED KIDNEY FUNCTION

8. EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: FLUSH THOROUGHLY WITH WATER.

INGESTION: DRINK 1 - 2 GLASSES OF WATER AND CONSULT A PHYSICIAN.

INHALATION: N/A

SKIN CONTACT: RINSE SKIN. WASH WITH SOAP AND WATER.

9. SPILL AND DISPOSAL PROCEDURES

SPILL AND LEAK:
SWEEP UP. DISSOLVE IN WATER AND FLUSH DOWN DRAIN WITH WATER.

DISPOSAL:
DISSOLVE IN WATER AND FLUSH DOWN DRAIN WITH EXCESS WATER. DISPOSE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

10. PRECAUTIONARY MEASURES

IN HANDLING:

() GLOVES
(X) EYE PROTECTION
() N/A
() OTHER:

VENTILATION:

(X) NORMAL
() MECHANICAL
() RESPIRATORY PROTECTION

WORK/HYGIENIC PRACTICES: N/A

11. SPECIAL PRECAUTIONS

AVOID HANDLING TABLETS

DATE: 1/10/05

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PO BOX 329
CHESTERTOWN - MARYLAND - 21620

TELEPHONE # FOR INFORMATION: 410-778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): 800-255-3924

1. PRODUCT IDENTIFICATION

POTASSIUM EXTRACTING SOLUTION

CODE NR.: 5707

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
ACETIC ACID	64-19-7		1.2	10 PPM	25 MG/CUBIC M

3. NON-HAZARDOUS INGREDIENTS

EXCEPT WATER (7732-18-5)

NAME	CAS #	%
SODIUM ACETATE	6131-90-4	5

WATER TO 100%

4. PHYSICAL DATA

APPEARANCE: CLEAR COLORLESS LIQUID

SOLUBILITY IN WATER: SOLUBLE

ODOR: VINEGAR

BOILING POINT: UNKNOWN

MELT. POINT: N/A

VAPOR PRESSURE: UNKNOWN

VAPOR DENSITY: UNKNOWN

pH: 5

5. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMIT:

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA: NOT A FIRE HAZARD

HMS HAZARD:

HEALTH 0

FLAMMABILITY 0

REACTIVITY 0

SCALE:

4 = EXTREME

3 = HIGH

2 = MODERATE

1 = SLIGHT

0 = LEAST

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE & EXPLOSION HAZARD: N/A

6. REACTIVITY DATA

STABILITY:

STABLE (X)

UNSTABLE ()

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDOUS DECOMPOSITION PRODUCTS: COx

7. HEALTH HAZARD DATA

TOXICITY: NON-TOXIC

PRIMARY ROUTE OF ENTRY:

INHALATION ()

INGESTION ()

SKIN (X)

N/A ()

CARCINOGENICITY:

NONE (X)

NTP ()

OSHA ()

IARC ()

OTHER HEALTH RELATED COMMENTS:

TARGET ORGANS: N/A

SIGNS AND SYMPTOMS OF EXPOSURE: MAY IRRITATE EYES AND SKIN.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: N/A

8. EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: FLUSH THOROUGHLY WITH WATER.

INGESTION: DRINK 1 - 2 GLASSES OF WATER.

INHALATION: N/A

SKIN CONTACT: FLUSH WITH WATER. WASH WITH SOAP AND WATER.

9. SPILL AND DISPOSAL PROCEDURES

SPILL AND LEAK: MOP UP AND FLUSH DOWN DRAIN WITH WATER.

DISPOSAL:

POUR DOWN DRAIN WITH EXCESS WATER. DISPOSE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

10. PRECAUTIONARY MEASURES

IN HANDLING:

GLOVES (X)

EYE PROTECTION (X)

N/A ()

OTHER: LAB COAT ()

VENTILATION:

NORMAL (X)

MECHANICAL ()

RESPIRATORY PROTECTION ()

WORK/HYGIENIC PRACTICES: N/A

11. SPECIAL PRECAUTIONS

N/A

DATE: 5/20/02

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