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 BIOCHEMICALS AND DIAGNOSTIC REAGENTS

rev: 7/20/1994

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 PHYSICAL PLANT-182  
 RENO NV 89557

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3917

DATE: 07/20/94  
 CUST#: 2-055-60420  
 PO#: REQUESTED BY  
 CONNIE SCHMIDT  
 BIOCHEMISTRY

M A T E R I A L   S A F E T Y   D A T A   S H E E T   PAGE 1

SECTION 1. --- CHEMICAL IDENTIFICATION ---

PRODUCT #: N0640      NAME: **A-NAPHTHALENEACETIC ACID FREE ACID**  
 PLANT CELL CULTURE TESTED

SECTION 2. --- COMPOSITION/INFORMATION ON INGREDIENTS ---

CAS #: 86-87-3  
 MF: C12H10O2

SYNONYMS

AGRONAA \* ALPHASPA \* ANA \* ANU \* APPL-SET \* BOKOR \* CELMONE \*  
 FRUITOFIX \* FRUITONE \* FRUITONE N \* KYSELINA 1-NAFTYLOCTOVA (CZECH) \*  
 KLINGITE \* LIQUI-STIK \* ALPHA-NA \* NAA \* ALPHA-NAA \* 1-NAA \* NAA 800  
 \* NAFUSAKU \* NAPHTHALENEACETIC ACID \* NAPHTHALENE-1-ACETIC ACID \*  
 ALPHA-NAPHTHALENEACETIC ACID \* ALPHA-NAPHTHYLACETIC \* NAPHTHYLACETIC  
 ACID \* ALPHA-NAPHTHYLACETIC ACID \* 1-NAPHTHYLACETIC ACID \* 2-(1-  
 NAPHTHYL)ACETIC ACID \* ALPHA-NAPHTHYLENEACETIC ACID \* ALPHA-  
 NAPHTHYLESSIGSAEURE (GERMAN) \* NAPHYL-1-ESSIGSAEURE (GERMAN) \*  
 NIAGARA-STIK \* NU-TONE \* PARMONE \* PHYMONE \* PHYMONE \* PIMACOL-SOL \*  
 PLANOFIX \* PLANOFIXE \* PLUCKER \* PRIMACOL \* RHODOFIX \* ROOTONE \*  
 STAFAST \* STIK \* STOP-DROP \* TEKKAM \* TIP-OFF \* TRANSPLANTONE \* TRE-  
 HOLD \* VARDHAK \*

SECTION 3. --- HAZARDS IDENTIFICATION ---

LABEL PRECAUTIONARY STATEMENTS

HARMFUL  
 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.  
 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
 RISK OF SERIOUS DAMAGE TO EYES.  
 TARGET ORGAN(S):  
 CENTRAL NERVOUS SYSTEM  
 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF  
 WATER AND SEEK MEDICAL ADVICE.  
 WEAR SUITABLE PROTECTIVE CLOTHING.  
 DO NOT BREATHE DUST.

SECTION 4. --- FIRST-AID MEASURES ---

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF  
 WATER FOR AT LEAST 15 MINUTES.  
 IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS

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NAME: A-NAPHTHALENEACETIC ACID FREE  
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AMOUNTS OF WATER.  
 IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL  
 RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
 IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
 CALL A PHYSICIAN.  
 WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. ----- FIRE FIGHTING MEASURES ----- (R) -----

EXTINGUISHING MEDIA  
 WATER SPRAY.  
 CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.  
 SPECIAL FIREFIGHTING PROCEDURES  
 WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO  
 PREVENT CONTACT WITH SKIN AND EYES.  
 UNUSUAL FIRE AND EXPLOSIONS HAZARDS  
 EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES -----

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY  
 RUBBER GLOVES.  
 SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.  
 AVOID RAISING DUST.  
 VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. ----- HANDLING AND STORAGE -----

REFER TO SECTION 8.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----

CHEMICAL SAFETY GOGGLES.  
 RUBBER GLOVES.  
 NIOSH/MSHA-APPROVED RESPIRATOR.  
 SAFETY SHOWER AND EYE BATH.  
 USE ONLY IN A CHEMICAL FUME HOOD.  
 AVOID INHALATION.

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DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
 AVOID PROLONGED OR REPEATED EXPOSURE.  
 WASH THOROUGHLY AFTER HANDLING.  
 SEVERE EYE IRRITANT.  
 HARMFUL SOLID.  
 KEEP TIGHTLY CLOSED.  
 STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR  
 WHITE TO BEIGE POWDER  
 MELTING POINT: 129 C TO 131.5 C

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

INCOMPATIBILITIES  
 STRONG OXIDIZING AGENTS  
 STRONG BASES  
 HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
 TOXIC FUMES OF:  
 CARBON MONOXIDE, CARBON DIOXIDE

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS  
 HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.  
 CAUSES SEVERE EYE IRRITATION.  
 CAUSES SKIN IRRITATION.  
 MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER  
 RESPIRATORY TRACT.  
 TARGET ORGAN(S):  
 CENTRAL NERVOUS SYSTEM  
 TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
 TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS NO: QJ0875000  
 1-NAPHTHALENEACETIC ACID  
 IRRITATION DATA

CONTINUED ON NEXT PAGE

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TOXICITY DATA

EYE-RBT 100 MG SEV	PESTC* 9,10,80
ORL-RAT LD50:1 GM/KG	85DPAN -, -, 71/76
IHL-RAT LC50: >207 GM/M3	PESTC* 9,10,80
IPR-RAT LD50:100 MG/KG	PESTC* 9,10,80
ORL-MUS LD50:743 MG/KG	TOIZAG 14,132,67
IPR-MUS LD50:609 MG/KG	TOIZAG 15,443,68
SCU-MUS LD50:733 MG/KG	TOIZAG 15,443,68
SKN-RBT LD50:>5 GM/KG	PEMNDP 9,607,91

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES  
 (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR  
 COMPLETE INFORMATION.

SECTION 12. ----- ECOLOGICAL INFORMATION -----  
 DATA NOT YET AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----  
 DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A  
 CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.  
 OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----  
 CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. ----- REGULATORY INFORMATION -----

REVIEWS, STANDARDS, AND REGULATIONS  
 EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION  
 FEREAC 54,7740,89  
 NOHS 1974: HZD 80317; NIS 1; TNF 43; NOS 8; TNE 605  
 NOES 1983: HZD 80317; NIS 1; TNF 287; NOS 1; TNE 3732; TFE 574  
 EPA TSCA CHEMICAL INVENTORY, JUNE 1993  
 EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1994

SECTION 16. ----- OTHER INFORMATION -----

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