

7758 -29 -4

U.S./CANADA VERSION

EFFECTIVE: 07/20/93

PRINTED: 10/27/93

PRINTED FOR.....

WORTH CHEMICAL CORP
2 SEGAL BLVD-AT EDWARDIA DRIVE
GREENSBORO NC 27420

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1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION =====

PRODUCT NAME.....

SODIUM TRIPOLYPHOSPHATE
EMERGENCY TELEPHONES:

SYNONYMS.....

PENTASODIUM TRIPHOSPHATE, STPP, STP

INFORMATION PROVIDED BY..

FMC CORPORATION
1735 MARKET STREET
PHILADELPHIA, PA 19103

EMERGENCY PHONE NUMBERS

CHEMTREC.....

(800) 424-9300

MEDICAL.....

(303) 595-9048 CALL COLLECT

PLANT/OTHER.....

(913) 749-8100 LAWRENCE, KS
(307) 875-2580 GREEN RIVER, WY

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2. COMPOSITION/INFORMATION ON INGREDIENTS =====

CAS # AND COMPONENTS.....

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SODIUM TRIPOLYPHOSPHATE

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3. HAZARD IDENTIFICATION =====

EMERGENCY OVERVIEW.....

PRODUCT IS NOT CONSIDERED HAZARDOUS BY KNOWN
GOVERNMENTAL DEFINITIONS. HOWEVER, CONTINUOUS
CONTACT MAY CAUSE SKIN IRRITATION.

HEALTH EFFECTS.....

MINIMALLY TO MODERATELY IRRITATING TO UNWASHED
EYES AND MINIMALLY TO MILDLY IRRITATING TO
WASHED EYES IN RABBITS. SKIN IRRITATION FROM
CONTINUOUS CONTACT HAS BEEN REPORTED DURING
MANUFACTURING WHEN PROTECTIVE MEASURES FOR
CONTACT OR PERSONAL HYGIENE PROCEDURES ARE NOT
FOLLOWED.
HUMAN INDUSTRIAL EXPERIENCE HAS SHOWN NO
SIGNIFICANT INHALATION HAZARD OR SKIN
IRRITATION WHEN EXPOSURES ARE PROPERLY
CONTROLLED. EXPOSURE MONITORING INDICATES THAT
THE AMOUNT OF RESPIRABLE DUST IN THE PRODUCT IS
LOW.
THERE HAVE BEEN NO MEDICAL CONDITIONS REPORTED
AS BEING AGGRAVATED BY EXPOSURE.

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4. FIRST AID MEASURES =====

EYES.....

FLUSH EYES WITH LARGE AMOUNTS OF WATER.
IF IRRITATION OCCURS AND PERSISTS, OBTAIN
MEDICAL ATTENTION.

SKIN.....

WASH WITH PLENTY OF SOAP AND WATER. GET MEDICAL
ATTENTION IF IRRITATION OCCURS AND PERSISTS.

INHALATION.....

REMOVE TO FRESH AIR. IF BREATHING DIFFICULTY

PCD

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=====	4. FIRST AID MEASURES =====
INGESTION.....:	OR DISCOMFORT OCCURS AND PERSISTS, OBTAIN MEDICAL ATTENTION. DRINK PLENTY OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF ANY DISCOMFORT PERSISTS, OBTAIN MEDICAL ATTENTION. LARGE DOSES MAY CAUSE NAUSEA, VOMITING AND DIARRHEA. SYSTEMIC ORAL TOXICITY IS EXTREMELY RARE AND HAS CONSISTED OF ACIDOSIS AND HYPOCALCEMIC TETANY.
NOTES TO PHYSICIAN.....:	
=====	5. FIRE FIGHTING MEASURES =====
EXTINGUISHING MEDIA.....:	PRODUCT IS NONCOMBUSTIBLE
SPECIAL FIREFIGHTING.....:	NOT APPLICABLE
PROCEDURES	
DEGREE OF FIRE AND.....:	NONE
EXPLOSION HAZARD	
HAZARDOUS DECOMPOSITION..:	NONE
PRODUCTS	
=====	6. ACCIDENTAL RELEASE MEASURES =====
PROCEDURE FOR RELEASE.....:	MATERIAL SHOULD BE SWEEPED UP FOR SALVAGE OR DR SPILL DISPOSAL.
=====	7. HANDLING AND STORAGE =====
HANDLING.....:	ANIMAL STUDIES AND MANUFACTURING EXPERIENCE INDICATE THAT EXPOSURE TO THE PRODUCT MAY RESULT IN EYE AND SKIN IRRITATION UNDER NORMAL CONDITIONS OF USE. IN THE EVENT OF CONTACT, IMMEDIATELY FLUSH EYES WITH WATER; WASH OFF SKIN.
VENTILATION.....:	CONTROL MEASURES SUCH AS LOCAL EXHAUST VENTILATION MAY BE REQUIRED WHERE EXCESSIVE AIRBORNE DUST LOADING MAY BE PRESENT.
STORAGE.....:	THE PRODUCT SHOULD BE STORED IN A CLEAN DRY AREA TO MAINTAIN PRODUCT QUALITY AND TO PREVENT POSSIBLE CONTAMINATION BY OTHER CHEMICALS.
=====	8. EXPOSURE CONTROLS/PERSONAL PROTECTION =====
CONTROL MEASURES.....:	PREVENTION OF EYE AND SKIN CONTACT MAY BE REQUIRED UNDER NORMAL USE CONDITIONS. HOWEVER, SEVERE AGITATION OR DISPERSION INTO THE WORK ENVIRONMENT MAY REQUIRE ENCLOSURE OF THE PROCESS AND LOCAL EXHAUST VENTILATION AT THE SOURCE TO PREVENT RELEASE INTO AIR. IF WORK ENVIRONMENT CONTROLS ARE NOT IMPLEMENTED, THEN PERSONAL

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=====	8. EXPOSURE CONTROLS/PERSONAL PROTECTION =====
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT	PROTECTION FOR INHALATION, SKIN AND EYE MAY BE REQUIRED.
RESPIRATORY.....:	USE APPROVED DUST RESPIRATORY PROTECTION IF RELEASE OF THE PRODUCT INTO THE WORK AREA IS EXPECTED.
EYES.....:	WEAR CHEMICAL GOGGLES, WHEN AIRBORNE DUST IS EXPECTED.
GLOVES.....:	USE IMPERVIOUS GLOVES WHEN CONTINUOUS CONTACT IS EXPECTED.
SPECIAL CLOTHING...:	USE LONG SLEEVE WORK SHIRT TO REDUCE EXPOSED SKIN AREA.
AND EQUIPMENT	
FOOTWEAR.....:	NO SPECIAL REQUIREMENT
=====	9. PHYSICAL AND CHEMICAL PROPERTIES =====
MELTING/FREEZING POINT...:	622°C
BOILING POINT.....:	OVER 1000°C
VAPOR PRESSURE.....:	NON-VOLATILE
VAPOR DENSITY (AIR=1)....:	NON-VOLATILE
ROOM TEMPERATURE.....:	WHITE GRANULES OR WHITE POWDER
APPEARANCE AND STATE	
ODOR.....:	NONE
SPECIFIC GRAVITY (H2O=1)..:	BULK DENSITY 0.5-1.2 G/ML
SOLUBILITY IN H2O % BY WT:	13 @ 25C
% VOLATILES.....:	NON-VOLATILE
EVAPORATION RATE.....:	NON-VOLATILE
(BUTYL ACETATE=1)	
PH (AS IS).....:	NOT APPLICABLE
PH (1% SOLUTION).....:	10
ODOR THRESHOLD.....:	NOT APPLICABLE
DENSITY (G/ML).....:	0.5-1.2 DEPENDING ON GRADE
PARTITION COEFFICIENT....:	NOT AVAILABLE
N-OCTANOL/WATER	
FLASH POINT.....:	NON COMBUSTIBLE
	NON COMBUSTIBLE
AUTOIGNITION TEMPERATURE.:	
FLAMMABLE LIMITS UPPER...:	NOT APPLICABLE
(AIR) LOWER...:	NOT APPLICABLE
EXPLOSIVE PROPERTIES.....:	NONE
OXIDIZING PROPERTIES.....:	NONE
SOLUBILITY.....:	NOT AVAILABLE
- FAT SOLUBILITY	
(SOLVENT - OIL)	

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===== 10. STABILITY AND REACTIVITY =====

STABILITY.....: STABLE
 HAZARDOUS POLYMERIZATION.: WILL NOT OCCUR
 CONDITIONS TO AVOID.....: NONE
 MATERIALS TO AVOID.....: NONE
 MAJOR CONTAMINANTS THAT..: NONE
 CONTRIBUTE TO INSTABILITY
 INCOMPATIBILITY.....: NONE
 HAZARDOUS DECOMPOSITION..: NONE
 PRODUCTS
 SENSITIVITY TO MECH.....: NONE
 IMPACT
 SENSITIVITY TO STATIC....: NONE
 DISCHARGE

===== 11. TOXICOLOGICAL INFORMATION =====

EYE CONTACT.....: MILD IRRITANT TO UNWASHED EYES; NON-IRRITANT
 TO WASHED EYES (RABBIT).
 SOURCE: FMC STUDY 186-917
 DATE: 1986

SKIN CONTACT.....: NON-IRRITATING TO INTACT SKIN
 SOURCE: FMC REPORT 188-1047
 DATE: 1988

SKIN ABSORPTION.....: NO PUBLISHED DATA

INHALATION.....: NO SIGNIFICANT HAZARD EXPECTED.
 LC50 > 0.39 MG/L (RAT, 4 HR)
 (MAX. ATTAINABLE DUST CONCENTRATION)
 FMC STUDY 188-1011

INGESTION.....: NO SIGNIFICANT HAZARD - LD 50 (RAT) = 6.5 G/KG
 SOURCE: RTECS
 DATE: 1980

ACUTE EFFECTS FROM.....: NO HUMAN DATA AVAILABLE. ANIMAL EYE IRRITATION
 OVEREXPOSURE STUDIES NOTED THIS MATERIAL IS A MILD IRRITANT
 TO UNWASHED EYES AND NON-IRRITANT TO WASHED
 EYES.

CHRONIC EFFECTS FROM.....: HUMAN INDUSTRIAL EXPERIENCE HAS SHOWN NO
 OVEREXPOSURE SIGNIFICANT INHALATION HAZARD OR SKIN
 (EFFECTS CONSIDERED IRRITATION WHEN GOOD PERSONAL HYGIENE
 INCLUDE: PRACTICES ARE FOLLOWED.
 SENSITIVITIES,
 CARCINOGENICITY,
 TERATOGENICITY,
 MUTAGENICITY,
 SYNERGISTIC
 PRODUCTS, AND ANY
 MEDICAL CONDITIONS
 GENERALLY RECOGNIZED
 AS BEING AGGRAVATED
 BY EXPOSURE.)

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===== 12. ECOLOGICAL INFORMATION =====

ENVIRONMENTAL FATE.....: INORGANIC PHOSPHATES IN CONTACT WITH THE SOIL, SUB-SURFACE OR SURFACE WATERS MAY BE TAKEN UP BY PLANTS AND UTILIZED AS ESSENTIAL NUTRIENTS. PHOSPHATES MAY ALSO FORM PRECIPITATES, USUALLY WITH CALCIUM OR MAGNESIUM. THE RESULTANT COMPOUNDS ARE INSOLUBLE IN WATER AND BECOME A PART OF THE SOIL OR SEDIMENT. THE TERM BIODEGRADABILITY, AS SUCH, IS NOT APPLICABLE TO INORGANIC COMPOUNDS.

ENVIRONMENTAL EFFECTS....: AQUATIC TOXICITY DATA
 96 HR LC50 > 100 MG/L, NON-TOXIC (RAINBOW TROUT, INLAND SILVERSIDES AND MYSID SHRIMP) FMC STUDIES 189-1081, -1082 & -1083
 48 HR EC50 > 100 MG/L, NON-TOXIC (DAPHNIA MAGNA) FMC STUDY 189-1084

===== 13. DISPOSAL CONSIDERATIONS =====

WASTE DISPOSAL METHOD....: THIS PRODUCT DOES NOT PRESENT A DANGER OR HAZARD FOR DISPOSAL. EXCEPT FOR FOOD APPLICATIONS, SALVAGE AND RETURN TO CONTAINER. PROCESS OR RECYCLE FOR OTHER USES. MAY BE DISPOSED OF IN LANDFILLS ACCORDING TO APPLICABLE REGULATIONS.

===== 14. TRANSPORT INFORMATION =====

DOT PROPER SHIPPING NAME.: NONE; NOT REGULATED
 IATA.....: NONE; NOT REGULATED
 IMDG.....: NONE; NOT REGULATED
 DOT CLASSIFICATION.....: NOT REGULATED
 DOT LABELS.....: NOT REQUIRED
 DOT MARKING.....: NOT REQUIRED
 DOT PLACARD.....: NOT REQUIRED
 UN NUMBER.....: NONE
 HAZARDOUS SUBSTANCE/RQ...: NOT LISTED
 49 STCC NUMBER.....: NONE
 PRECAUTIONS TO BE TAKEN...: NONE
 IN TRANSPORTATION
 OTHER SHIPPING.....: NONE
 INFORMATION

===== 15. REGULATORY INFORMATION =====

OSHA
 EXPOSURE LIMITS
 SUBSTANCE(S).....: SODIUM TRIPOLYPHOSPHATE
 OSHA PEL-TWA.....: NOT APPLICABLE
 STEL.....: NOT APPLICABLE
 CEILING.....: NOT APPLICABLE

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===== 15. REGULATORY INFORMATION =====

SKIN DESIGNATION.: NOT APPLICABLE
 ACGIH TLV-TWA.....: NOT APPLICABLE
 STEL.....: NOT APPLICABLE
 CEILING.....: NOT APPLICABLE
 SKIN DESIGNATION.: NOT APPLICABLE
 TARGET ORGAN EFFECTS.....: NOT APPLICABLE
 CARCINOGENIC POTENTIAL...: SODIUM TRIPOLYPHOSPHATE
 REGULATED BY OSHA.....: NO
 LISTED ON NTP REPORT...: NO
 IARC GROUP 1, 2A, 2B...: NO

U.S. EPA REQUIREMENTS

RELEASE REPORTING

CERCLA (40 CFR 302)

LISTED SUBSTANCE(S).....: NOT LISTED

 RQ.....: NOT APPLICABLE

 CATEGORY.....: NOT APPLICABLE

 RCRA WASTE NO.....: NOT APPLICABLE

UNLISTED SUBSTANCE(S)...: NOT APPLICABLE

 RQ.....: NOT APPLICABLE

 CHARACTERISTIC...: NOT APPLICABLE

 RCRA WASTE NO.....: NOT APPLICABLE

SARA TITLE III SEC 313

 (40 CFR 372).....: NOT LISTED

LISTED TOXIC CHEMICAL...: NOT LISTED

REPORTING THRESHOLD.....: NOT APPLICABLE

INVENTORY REPORTING

SARA TITLE III SEC 311/312

 (40 CFR 370)

 SUBSTANCE(S).....: NOT LISTED

 HAZARD CATEGORY.....: NOT APPLICABLE

 PLANNING THRESHOLD.....: NOT APPLICABLE

EMERGENCY PLANNING

SARA TITLE III SEC 302-303

 (40 CFR 355)

 LISTED SUBSTANCE(S).....: NOT APPLICABLE

 RQ.....: NOT APPLICABLE

 PLANNING THRESHOLD.....: NOT APPLICABLE

U.S. TSCA STATUS.....: LISTED IN INVENTORY

CANADA

INGREDIENT DISCLOSURE LIST

 SUBSTANCE(S).....: NOT LISTED

CONTROLLED PRODUCT.....: NO

HAZARD SYMBOLS.....: NOT APPLICABLE

 CLASS & DIVISION.....: NOT APPLICABLE

PRODUCT IDENTIFICATION NO: NOT APPLICABLE

DOMESTIC SUBSTANCE LIST..: LISTED

CEPA PRIORITY LIST.....: NOT LISTED

CARCINOGENICITY

 ACGIH APPENDIX A.....: NO

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=====	15. REGULATORY INFORMATION =====
A1 - CONFIRMED HUMAN...:	NOT LISTED
A1 - SUSPECTED HUMAN...:	NOT LISTED
IARC GROUP 1 OR 2.....:	NOT LISTED
LABEL LANGUAGE (US/CANADA)	
HEALTH.....:	NOT HAZARDOUS BY OSHA NOR CANADIAN WHMIS DEFINITION.
PHYSICAL.....:	NOT APPLICABLE
HANDLING AND STORAGE...:	STORE CLEAN DRY AREA. FOR FOOD APPLICATIONS STORE AWAY FROM POSSIBLE CONTAMINATION.
FIRST AID.....:	IN CASE OF EYE OR SKIN CONTACT, FLUSH WITH PLENTY OF WATER. IF IRRITATION PERSISTS, OBTAIN MEDICAL ASSISTANCE.
STATE REGULATIONS.....:	CONTAINS CHEMICALS FROM CALIFORNIA "PROP 65" LISTS OF CARCINOGENS AND REPRODUCTIVE TOXINS: PPM MAXIMUM ARSENIC 3, CADMIUM 2 AND LEAD 0.7.
=====	16. OTHER INFORMATION =====
PRODUCT USES.....:	BUILDER FOR DETERGENT COMPOUNDS, WATER TREATMENT, DISPERSANT, TEXTILE PROCESSING, STABILIZER FOR HYDROGEN PEROXIDE BLEACH BATHS. ALSO MOISTURE BINDER FOR MEAT, FISH, ETC. MAY BE USED TO TREAT DRINKING WATER UP TO 12.9 MG/L.
NFPA 704	
HEALTH.....:	0
FLAMMABILITY.....:	0
REACTIVITY.....:	0
SPECIAL HAZARD.....:	NONE
(DEGREE OF HAZARD	
0 = NO HAZARD	
4 = SEVERE HAZARD)	

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THE CONTENTS AND FORMAT OF THIS MSDS ARE IN ACCORDANCE WITH OSHA HAZARD COMMUNICATION AND CANADA'S WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS)